

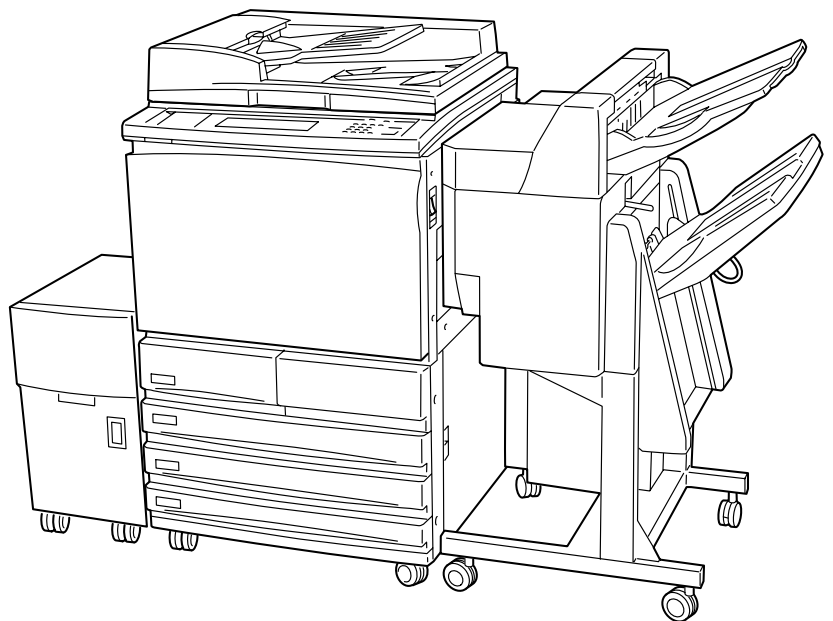
Digital Imaging System

Operating Instructions (For Printer)

DA-PC700

Options

DA-PM64D (Except Europe)



Before operating this machine, please read these instructions completely and keep these operating instructions for future reference.

English

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Preface


Welcome to the DP-6000/7000.*

Written with the new user in mind, these Operating Instructions provide all the necessary information about operating the printer functions, installing the printer drivers as well as the setup and operation when using this machine as a network printer. To get the most out of the machine, please read this manual before using it. This manual is written with the assumption that you are familiar with the basic knowledge and way of using your operating system. Refer to the manuals of these products for information on them.

Note that this manual is written for users operating the DP-6000/7000 with a client computer installed with an English edition operating system only, unless otherwise indicated.

Regarding the maintenance of this machine and copying functions, please see the Operating Instructions (For Copier).

After reading, keep this manual handy for a quick reference should you encounter any difficulties when using the machine.

In this manual, safety instructions are described with the symbol . Always read and follow these instructions before performing the required procedure.

Reception interference:

When installed at a certain location, the machine may cause interference with radio and television reception. If you notice flickering or distorted images or noises on your audio-visual units, your machine may be causing radio interference. Switch it off, and if the interference disappears, the machine is the cause of radio interference.

Perform the following procedures until the interference is corrected.

- Move the machine and the TV and radio away from each other.
- Reposition or re-orientate the machine and/or the TV and radio.
- Unplug the machine, TV and radio, and replug them into outlets that operate on different circuits.
- Re-orientate the TV and/or radio antennas and cables until the interference stops. For an outdoor antenna, you should ask your local electrician for support.
- Use coaxial cable antennas.

* DP-6000 USA/Canada only.

Types of Manuals

The types of manuals available for the DP-6000/7000 are as follows:

Manual bundled with the main unit (i.e. the copier)

- Operating Instructions (For Copier)
Explains the handling of the main unit and the copier functions.

Manuals bundled with the Printer/Scanner Unit

- Operating Instructions (For Printer)
Explains the printer functions, installation/configuration of the printer drivers as well as the setup and operation when using the machine as a network printer.
- Operating Instructions (For Scanner)
Explains the scanner functions and installation/configuration of the scanner driver.

Using These Operating Instructions

Organization

The following is a summary of each chapter:

Chapter 1 Overview of the Printer

Explains some of the main components of the printer, preparations for printing, special features of the printer, network environments, power saver and the contents of the included CD-ROM.

Chapter 2 Setup

Explains the cable connections and the allocation of memory.

Chapter 3 Useful Operations

Explains about printing, cancellation of printing, outputting operations and control panel operations during printing.

Chapter 4 Installing/Configuring the Printer Drivers

Explains how to install/configure the printer drivers.

Chapter 5 Setup for Direct Print Utility

Explains the setup process when using Direct Print Utility to print.

Chapter 6 Setup for TCP/IP (Windows NT/Windows 2000)

Explains the setup process when using TCP/IP protocol to print from a Windows NT/Windows 2000 machine.

Chapter 7 Setup for Windows Networking

Explains the setup process when using Windows Networking to print.

Chapter 8 Setup for NetWare

Explains the setup process when using Novell NetWare to print.

Chapter 9 Using Internet Printing Protocol

Explains the setup process when using Internet Printing Protocol (IPP) to print.

Chapter 10 Using Internet Services

Explains how to use Internet Services with the printer.

Chapter 11 Setting Print Mode

Explains how to print using emulation mode.

Chapter 12 Printing Reports/Lists

Explains the types of reports/lists and the printing method.

Chapter 13 Configuring by the Tools Mode Screen

Explains the items that can be set from the Tools Mode screen as well as the setting method. Read this when setting up the printer.

Chapter 14 Precautions and Limitations

Explains the precautions and limitations when using the printer functions in general, NetWare, TCP/IP (LPD), and SMB.

Chapter 15 Troubleshooting

Explains how to solve problems when the printer is not functioning properly. When problems occur, read this first before treating them as breakdowns.

Appendix

Explains the main specifications of the printer functions, the interface connector pins and allocation signals, printing to postcards, printing with overlays, and printing secured print/sample set jobs.

Glossary

Explains the meanings of the terms used in this instructions.

Conventions

① Icons used in this manual:



Indicates important information and must be read in detail.



Indicates supplementary information.



Indicates references used in this manual. Manual titles are noted without double quotes while specific sections like "1.9.2 Disabling the power saver mode" are found within double quotes.

② Special marks/characters used in this manual:

" "

: Double quotes are used to indicate names of files, windows, dialog boxes and input contents e.g. The "Select a Printer" dialog box appears.

Bold face

: Boldface characters refer to window menu items, dialog box items and all kinds of buttons e.g. Click **OK**.

③ When a checkbox is checked, it indicates ON, otherwise it indicates OFF.

Example: "Image Enhancement" is on.

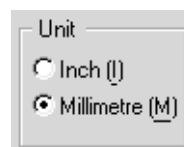


"Image Enhancement" is off.



④ The item with the radio button checked is the selected item.


Example: "Millimeter" is selected.





Safety Notes


Read these safety notes as well as those of the Operating Instructions (For Copier) before using the printer functions of this machine.


This section describes the graphic symbols used throughout this instructions.

 **WARNING** is used to alert operators to an operating procedure, practice or condition that, if not strictly observed, can result in severe injury or loss of life.

 **CAUTION** is used to alert operators to an operating procedure, practice or condition that, if not strictly observed, might result in safety hazards.

 This symbol is used to alert operators to a specific operating procedure that requires close attention. Read and follow instructions carefully to ensure the task is accomplished safely.

 This symbol is used to alert operators to a specific operating procedure that must not be performed. Read and follow instructions carefully.

 This symbol is used to alert operators to a specific operating procedure that should be emphasised for operating safety. Read and follow instructions carefully.



Heated surface



Flammable



Electric shock



Pinched fingers



Prohibited



No fire



Do not tear down



Do not touch



Instructions



Unplug



Ground/Earth

CAUTION



Switch off the machine and host computer before connecting the interface cable. Connecting the cable with a live machine and computers can cause a shock hazard.

Table of Contents

Preface	
Types of Manuals	
Using These Operating Instructions	
Safety Notes	
Contents	

Chapter 1 Overview of the Printer

1.1	Main Components and Their Functions	2
1.1.1	Back View	2
1.1.2	Using the Touch Panel Display	3
1.2	Getting Ready to Print	4
1.3	Special Features of the Printer	6
1.4	Setting Printer Environment	7
1.5	Network Printer Environments	8
1.6	Setting IP Address for Network Environment	13
1.6.1	Flow of Setting	13
1.6.2	Using Touch Panel Display for Setting	14
1.6.3	Checking/Setting DHCP Environment	17
1.7	Setting Port	18
1.7.1	Activating Port	18
1.7.2	Other Setting Items	21
1.8	Power Saver	22
1.8.1	Using the Power Saver Mode	22
1.8.2	Automatic Power Saver Mode	22
1.9	About the included CD-ROM	23

Chapter 2 Setup

2.1	Connecting Interface Cables	26
2.1.1	Parallel	26
2.1.2	Ethernet	27
2.2	Memory Allocation	28
2.2.1	Uses	28
2.2.2	Suggested Values	28

Chapter 3 Useful Operations

3.1	Flow of Printing	30
3.1.1	For Windows	30
3.1.2	Basic Way of Printing	31
3.1.3	Online Help	31
3.2	Checking Job Status	32

3.3	Cancelling Printing From Printer	33
3.3.1	Cancelling Jobs in Process	33
3.3.2	Cancelling Jobs in the Printer	34
3.4	Forced Outputting	35
3.4.1	Outputting Waiting Jobs	35
3.4.2	Outputting in Emulation Mode	36
3.5	Switching Printer to Offline	37
3.6	Printing vs Copying/Scanning	38

Chapter 4 Installing/ Configuring the Printer Drivers

4.1	About the Printer Drivers	44
4.1.1	The PCL 6 Printer Drivers	44
4.1.2	Installation/Configuration Methods	44
4.1.3	Settings on the Printer	44
4.2	Installing/Uninstalling the Printer Drivers	45
4.2.1	For a Local Printer	45
4.2.2	For a Network Printer	48
4.2.3	Uninstalling the Printer Drivers	49
4.3	Configuring the Printer Drivers	51
4.3.1	Accessing the Printer Properties Dialog Box	51
4.3.2	Setting the Printer Properties	53

Chapter 5 Setup for the Direct Print Utility

5.1	Using the Direct Print Utility	76
5.1.1	System Configuration	76
5.1.2	Target Computers (Windows 95/98/Me)	76
5.1.3	Flow of Setup	77
5.2	Setup of the Printer	78
5.2.1	When the LPD Port is Disabled	78
5.2.2	Other Settings	80
5.3	Installing the Direct Print Utility	81
5.3.1	Overview	81
5.3.2	Setting the TCP/IP Protocol	82
5.3.3	Installation Procedure	83
5.3.4	Setting the Port	85
5.4	Status Indication	88
5.5	Uninstalling	90

Chapter 6	Setup for TCP/IP (Windows NT/Windows 2000)	
6.1	Setup for TCP/IP (Windows NT/Windows 2000)	94
6.1.1	Flow of Setup	94
6.2	Setup for the Printer	95
6.2.1	Setting the LPD Port to Enable	95
6.2.2	Other Settings	99
6.3	Setup for Windows NT/Windows 2000	100
6.3.1	For Windows NT 4.0/Windows 2000	100
Chapter 7	Setup for Windows Networking	
7.1	Introduction	102
7.1.1	System Structure	102
7.1.2	Setup Procedure	103
7.2	Setting NetBEUI in Printer	104
7.2.1	Activating Port and Setting Protocol	104
7.2.2	Other Settings	106
7.3	Setting TCP/IP in Printer	108
7.3.1	Defining IP Address	108
7.3.2	Activating Port and Setting Protocol	108
7.3.3	Other Settings	110
7.4	Changing Printer and Workgroup Name	111
7.4.1	Through Windows Networking	111
7.5	Auto Driver Downloading	116
7.5.1	Preparation for Auto Driver Downloading	116
7.5.2	Auto Downloading of Printer Driver	118
Chapter 8	Setup for NetWare	
8.1	Using NetWare	122
8.1.1	System Configuration	122
8.1.2	Target Computers	122
8.1.3	Interface	123
8.2	Setup for NetWare	124
8.2.1	Flow of Setup	124
8.3	Setup for the Printer	125
8.3.1	Setting the Port to Enable	125
8.3.2	Other Settings	127
8.3.3	Printing the Printer Settings List	128
8.4	Setup for the Client	129
8.4.1	Windows 95/98/Me, Windows NT 4.0 or Windows 2000	129

Chapter 9 Using the Internet Printing Protocol

9.1	Introduction	132
9.1.1	System Environment	132
9.1.2	Setup	133
9.1.3	Other Setting Items	134
9.2	Setup of the Printer and Installing the Printer Driver	135
9.2.1	For Windows 2000	135

Chapter 10 Using Internet Services

10.1	Using Internet Services	140
10.1.1	Structure of the Internet Services Screen	140
10.1.2	System Environment	141
10.1.3	Target Host Computers and Browsers	141
10.2	Configuring Browser	142
10.2.1	Checking Browsers	142
10.2.2	Checking Proxy Server and Port Number	143
10.3	Configuring Printer	144
10.3.1	Activating Internet Service	144
10.3.2	Other Internet Service Settings Items	146
10.4	Activating Browser	147
10.4.1	Activating Browser	147
10.4.2	Help	148

Chapter 11 Setting Print Mode

11.1	Print Mode Operation	150
11.2	PCL 6 Settings	151
11.2.1	List of PCL 6 Settings Items	151
11.2.2	Setting Procedure	156

Chapter 12 Printing Reports/Lists

12.1	Types of Reports/Lists	160
12.1.1	Types and Paper Sizes	160
12.1.2	Printer Settings List	161
12.1.3	Job History Report	163
12.1.4	Error History Report	166
12.1.5	PCL Settings List	168
12.1.6	PCL Fonts List	170
12.1.7	PostScript Fonts List	172
12.1.8	Print Meter Report	174
12.1.9	PostScript Settings List	176
12.1.10	Stored Print Job List	178
12.2	How to Print Report/List	180

Chapter 13 Configuring by the Tools Mode Screen

13.1	Tools Mode	182
13.1.1	Displaying the Tools Mode Screen	182
13.1.2	Exiting the Tools Mode Screen	183
13.2	System/Meter Settings	184
13.2.1	Common Settings	184
13.2.2	Copy Mode Settings	186
13.2.3	Print/Scan Mode Settings	187
13.2.4	Setting Procedure	195

Chapter 14 Precautions and Limitations

14.1	In General	198
14.2	On Using NetWare	200
14.2.1	Setting Printer	200
14.2.2	Setting Server	201
14.2.3	During Printing	202
14.2.4	Using Token Ring interface port *	202
14.2.5	Others	202
14.3	On Using TCP/IP (LPD)	203
14.3.1	During Setup	203
14.3.2	During Switching Power On/Off	203
14.3.3	During Printing	204
14.4	On Using SMB	205
14.4.1	During Setup	205
14.4.2	During Switching Power On/Off	205
14.4.3	During Printing	206

Chapter 15 Troubleshooting

15.1	When Problems Occur	208
15.2	When the Print Quality is Poor	212
15.3	Using Direct Print Utility	216
15.4	Using NetWare	218
15.4.1	The Printer is not Printing	218
15.4.2	When "Switch Off the Power" Appears	221
15.4.3	Unable to Obtain Desired Print Results	221
15.4.4	No Notification	222
15.5	Using TCP/IP	223
15.5.1	When Using Windows 95/98/Me	223
15.5.2	When Using Windows NT 4.0	224

*May not be available. Please see your Panasonic Authorized representative for details.

15.6	Using SMB	225
15.6.1	The Printer is not Found	225
15.6.2	Cannot Print	226
15.6.3	Cannot Delete Documents From the Printer Window	226
15.6.4	Cannot Perform Auto Driver Downloading	227
15.7	Using Internet Services	228

Appendix

A	Main Specifications	230
A.1	Specifications of the Printer	230
A.2	Printing Area	231
B	Connectors and Allocation Signal	232
C	Printing Data Combined Using Overlays	234
C.1	Creating an Overlay	234
C.2	Printing with an Overlay	235
D	Printing Secured Print and Sample Set Jobs	236
D.1	Storing Secured Print/Sample Set Jobs	237
D.2	Printing Secured Print/Sample Set Jobs	238
	Glossary	241
	Index	243

A stylized, abstract illustration in white lines on a gray background. It depicts a person sitting at a desk, possibly using a printer. The person is represented by simple shapes: a head, a torso, and limbs. The desk and printer are also indicated by thick white outlines. There are some decorative elements like circles and wavy lines. The overall style is minimalist and modern.

1

Overview of the Printer

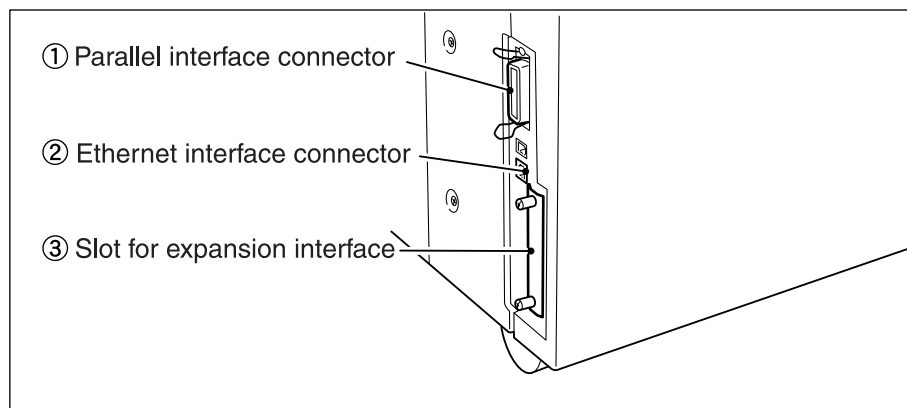
1.1	Main Components and Their Functions	2
1.2	Getting Ready to Print	4
1.3	Special Features of the Printer	6
1.4	Setting Printer Environment.....	7
1.5	Network Printer Environments	8
1.6	Setting IP Address for Network Environment	13
1.7	Setting Port	18
1.8	Power Saver.....	22
1.9	About the Attached CD-ROM	23



Main Components and Their Functions

The names and functions of various parts of the machine related to the printer feature are given below. For other parts, see "1.1 Main Components and Their Functions" of the Operating Instructions (For Copier) of the same series.

1.1.1 Back View



① **Parallel interface connector**

Connects the printer to a host computer by a Centronics/IEEE 1284-compliant interface cable.

② **Ethernet interface connector**

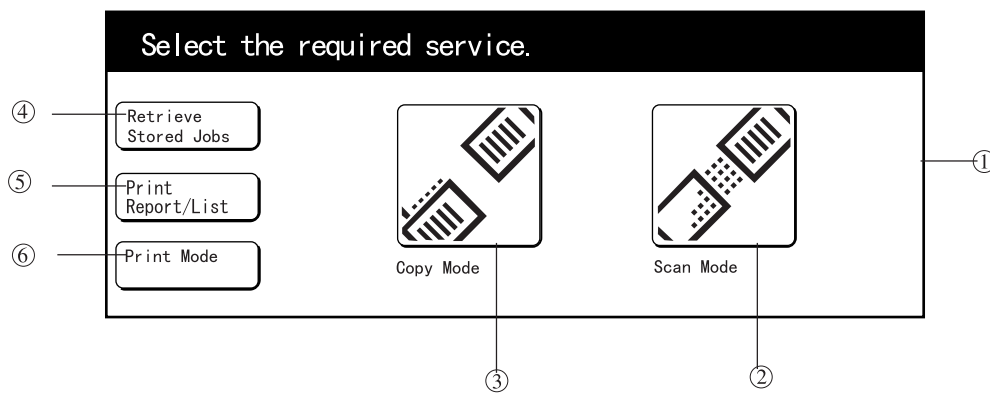
Connects the printer to network by a twisted pair cable.

③ **Slot for expansion interface**

Attaches the optional interface kit for Token Ring.

1.1.2 Using the Touch Panel Display

There are buttons on the touch panel display for various operations. Touch these buttons directly to enable the feature to be selected. Read this sub-section together with "1.3 Using the Touch Panel Display" of the Operating Instructions (For Copier). The buttons displayed on the menu screen are explained below.



① Menu screen

Select the Menu button on the control panel to display this screen. Select the buttons on this screen to display the respective setting screen.

② Scan Mode

Select this button to display the Scan Mode screen for setting the various scan features.

See ••• *Operating Instructions (For Scanner)*

③ Copy Mode

Select this button to display the Copy Mode screen for setting the various copy features.

See ••• *Operating Instructions (For Copier)*

④ Retrieve Stored Jobs

Select this button to retrieve the settings registered in the Job Memory to copy or scan.

See ••• • *Operating Instructions (For Copier)*
• *Operating Instructions (For Scanner)*

⑤ Print Report/List

Select this button to print the various reports/lists on the machine settings.

See ••• *"Chapter 12 Printing Reports/Lists"*

⑥ Print Mode

Select this button to set the emulation mode and to set the printer to Online or Offline mode.

See ••• *"3.4 Forced Outputting",
"Chapter 11 Setting Print Mode"*



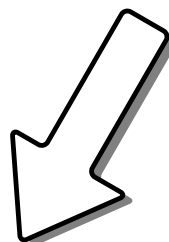
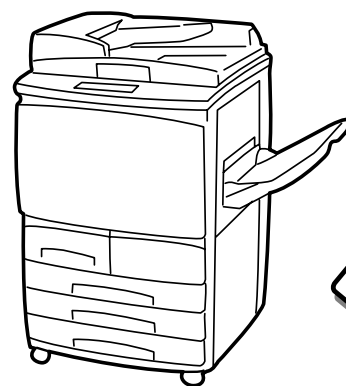
Getting Ready to Print

This section explains the procedure for setting up the printer. The flow of operations is as follows:

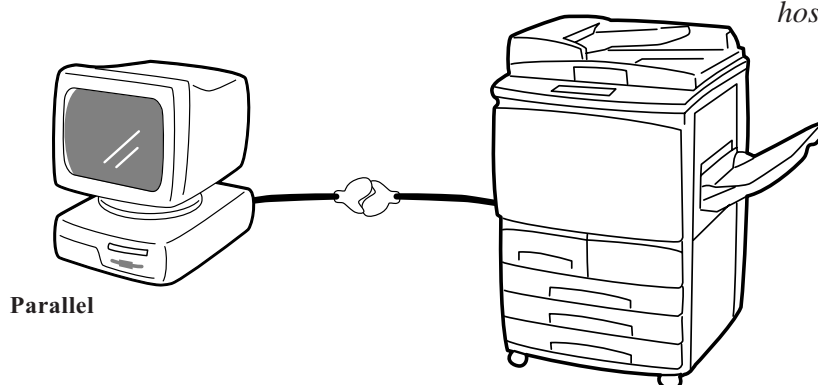
⚠ WARNING *Check that the printer is switched off before handling it. If not, there is a danger of electric shock.*

Connect the cable and make the necessary settings.

See ... "Chapter 2 Setup"



When connecting to the host computer directly



Parallel

Carry out the necessary installation and setup of the host computer.

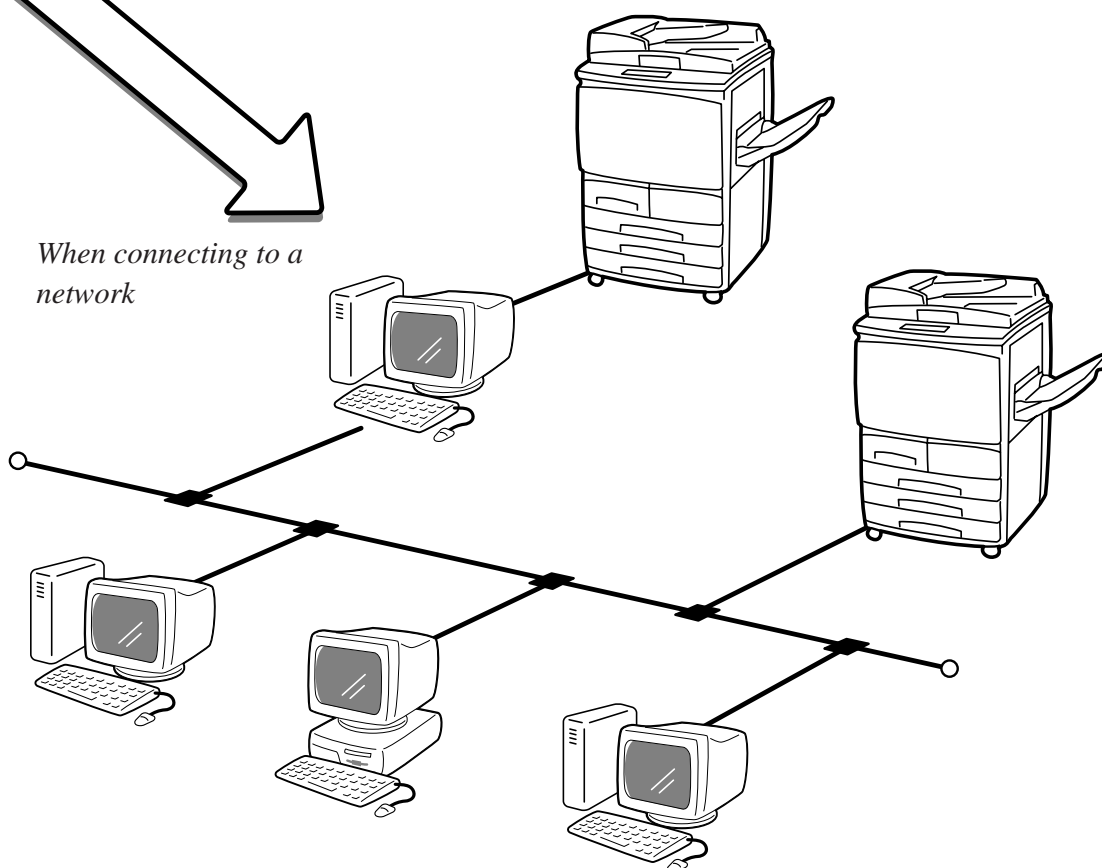
See ... "Chapter 4 Installing/Configuring the Printer Drivers"

When the printer is used via a network, it is necessary to define settings according to the network environment.



- "1.4 Setting Printer Environment"
- "1.5 Network Printer Environments"
- "1.6 Setting IP Address for Network Environment"
- "Chapter 7 Setup for Windows Networking"
- "Chapter 8 Setup for NetWare"

When connecting to a network





Special Features of the Printer

The special features of the printer are as follows:

- It supports PCL5e and PCL6 emulations but only PCL6 drivers are provided.
- Printing can be specified without having to take into consideration the printer language as there is an automatic printer language detection feature.
- High quality printing can be achieved with its 600 dpi laser-style resolution. Also, it comes with an image-enhancement feature which can increase resolution and produce smooth printing without any notches (equivalent to 2,400 dpi).
- Besides the standard parallel interface, it can be used in a network (multi-protocol) environment through the standard network interface for Ethernet. Or an optional Token Ring interface can be installed.*¹



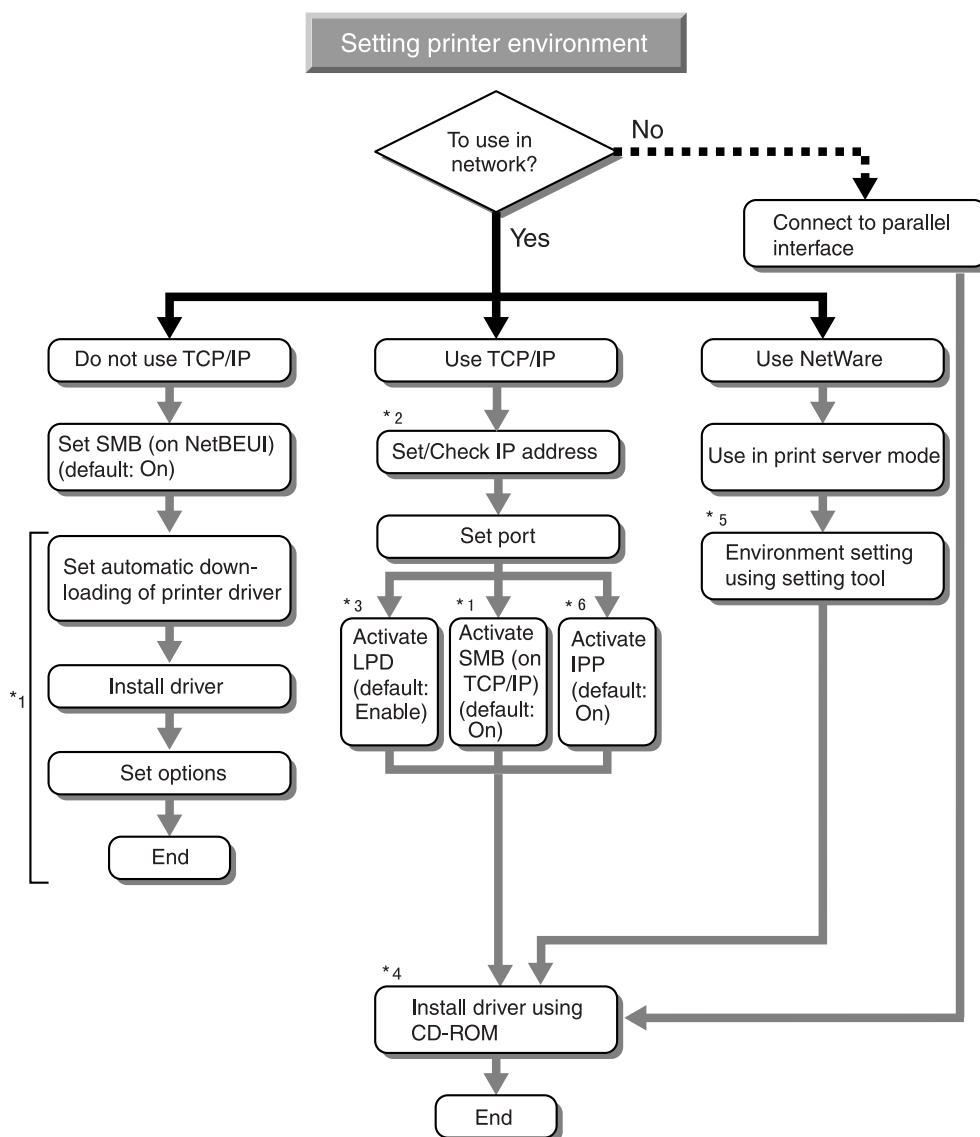
- *Ethernet and Token Ring are mutually exclusive i.e. they cannot be used at the same time. For details on Ethernet, refer to "2.1.2 Ethernet". For details on Token Ring, refer to the manual of the Token Ring kit, Token Ring Board Installation Guide.*
- *dpi is the abbreviation of Dot Per Inch and is the unit that indicates the number of dots that can be printed within a one-inch area. It is used as a unit indicating resolution.*
- *Protocol is the essential communication regulation for carrying out data transmission.*

**1. This may not be available. Please see your Panasonic Authorized representative for details.*



Setting Printer Environment

Setup the printer environment by following the flow chart below. Check the necessary settings for the printer environment as you proceed. When using AppleTalk, refer to the manuals that come with the PostScript software kit.



- *1 Refer to "Chapter 7 Setup for Windows Networking"
- *2 Refer to "1.6 Setting IP Address for Network Environment"
- *3 Refer to "1.7 Setting Port"
- *4 Refer to "Chapter 4 Installing/Configuring Printer Drivers"
- *5 Refer to "Chapter 8 Setup for NetWare"
- *6 Refer to "Chapter 9 Using Internet Printing Protocol"



Network Printer Environments

The DP-6000/7000 series printer can be used as a network printer when connected to the network. The printer supports multiple protocols. As a result, one printer can be shared even over different network environments.

This section describes the different network environments that be setup for the printer.

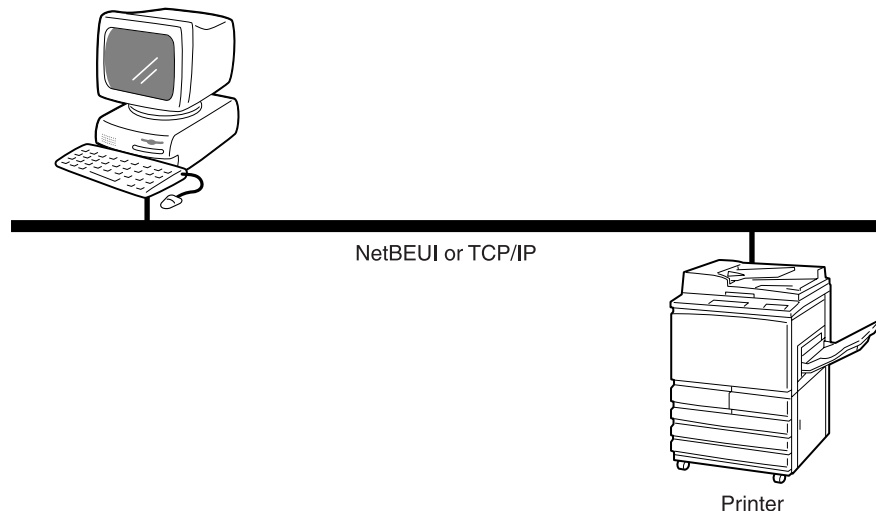
●●● Windows Networking (for Windows 95/98/Me, Windows NT 4.0 or Windows 2000)

Server Message Block (SMB) is a protocol for sharing files and/or printers on Windows 95/98/Me, Windows NT 4.0, and Windows 2000. Print data or settings can be sent directly to the printer on the same network (Ethernet interface) without going through the server when SMB is used.

Activate the SMB port on the printer, select the network printer on each of the operating system (OS) (Windows 95/98/Me, Windows NT 4.0, or Windows 2000), and you can print by just installing the printer. You can use NetBEUI and TCP/IP as the transport protocol for SMB.

 ●●● "Chapter 7 Setup for Windows Networking" when using Windows Networking.


OS: Windows 95/98/Me, Windows
NT 4.0 or Windows 2000

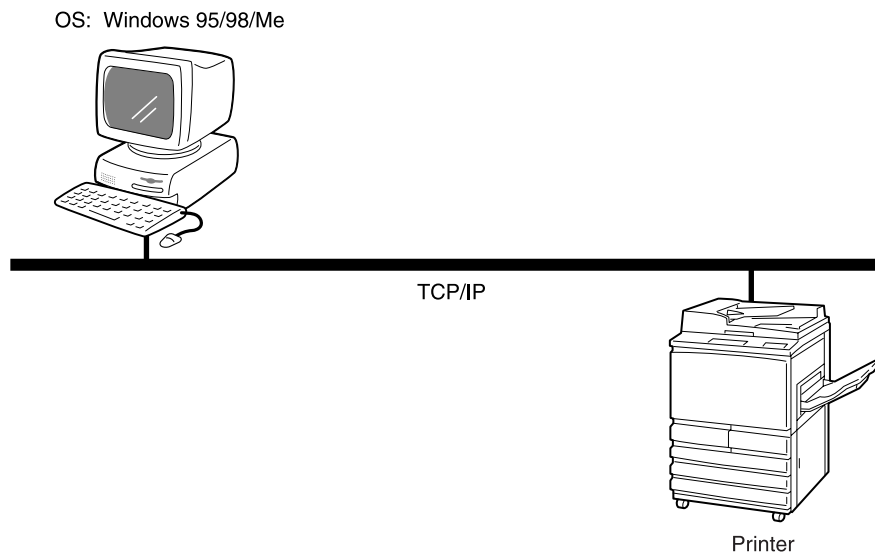


●●● TCP/IP Direct Print Utility (for Windows 95/98/Me).

The TCP/IP Direct Print Utility is a software which allows print data to be sent directly from a Windows 95/98/Me computer to a printer on the same network (Ethernet interface) without going through a server.

As the printer supports the TCP/IP (LPD) protocol, the print data can be sent directly and printed from the Windows 95/98/Me computer when using this software. You will need to setup the IP address on the printer and on the Windows 95/98/Me computer.

 ●●● "1.7 Port Setting"

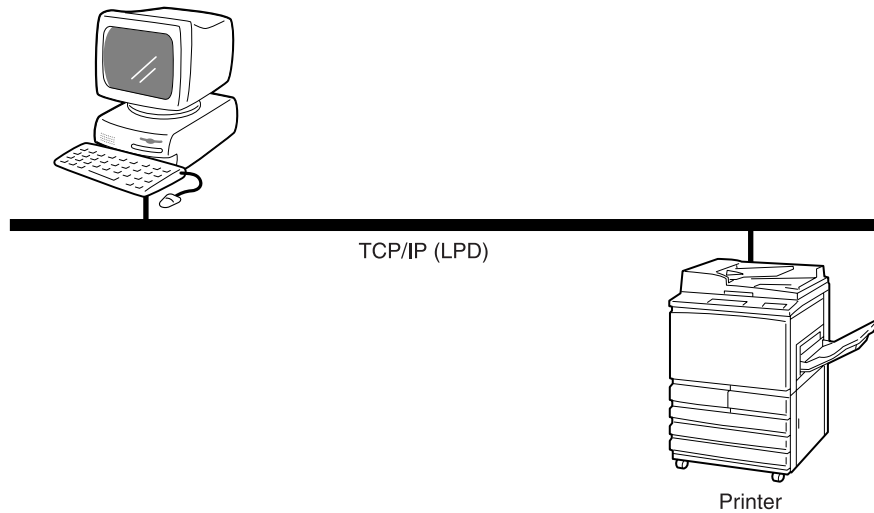


●●● TCP/IP (for Windows NT 4.0/Windows 2000)

As the printer supports TCP/IP (LPD) protocol, print data can be sent directly and printed from a Windows NT 4.0/Windows 2000 computer. You will have to setup the IP address on the printer and on the Windows NT 4.0/Windows 2000 computer. And once the printer on the Windows NT 4.0/Windows 2000 computer is shared, you can also print from other Windows NT 4.0/Windows 2000 or Windows 95/98/Me computer on the network.

See ●●● "1.7 Port Setting"

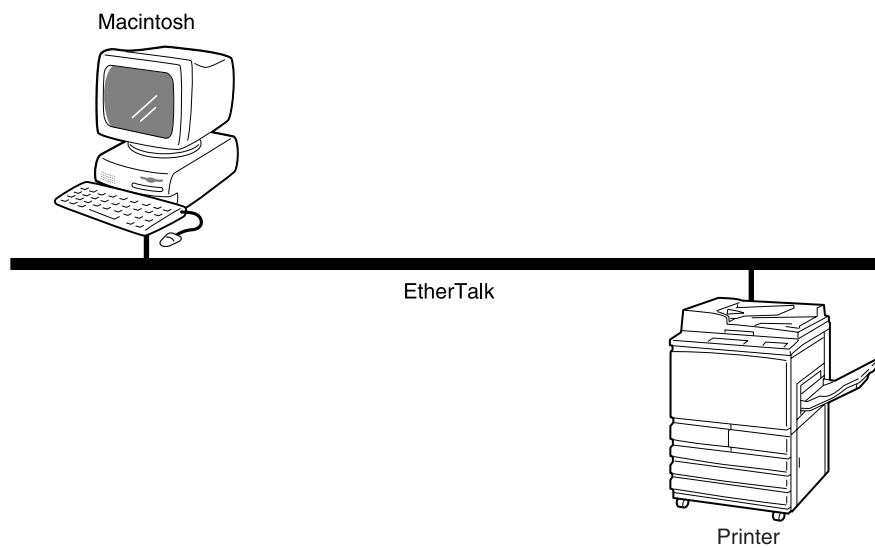
Windows NT4.0/Windows 2000



●●● AppleTalk (for Macintosh)

As the printer supports AppleTalk protocol, you can print from Macintosh using EtherTalk.

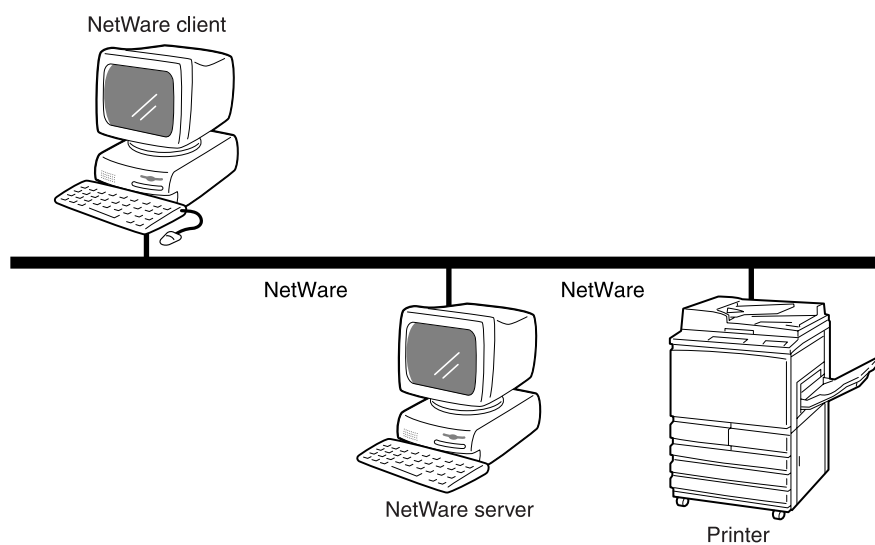
See ●●● When using *EtherTalk* port, refer to the manuals that come with the optional *PostScript software kit*.



●●● NetWare

The printer can be used in an environment using Novell NetWare as a network OS.

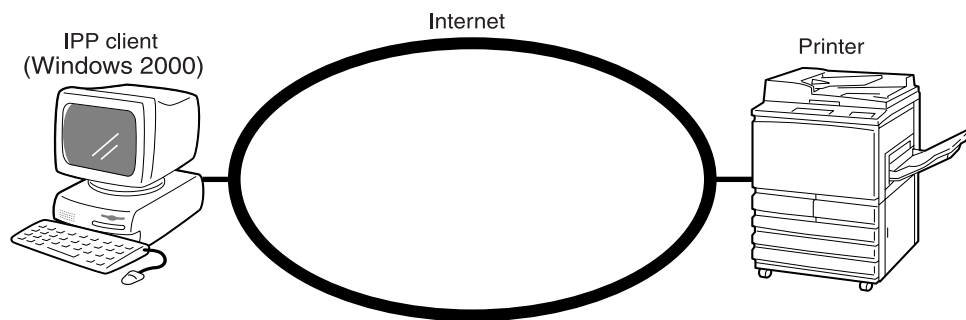
See ●●● "Chapter 8 Setup for NetWare"



●●● Internet printing


The printer supports Internet Printing Protocol (IPP). And if Windows 2000 is installed, with the client software needed to output to an IPP printer (IPP port monitor), you can specify the printer supporting IPP from **Add Printer** in the control panel. With this IPP, you can print to a far away printer through the internet or an intranet.

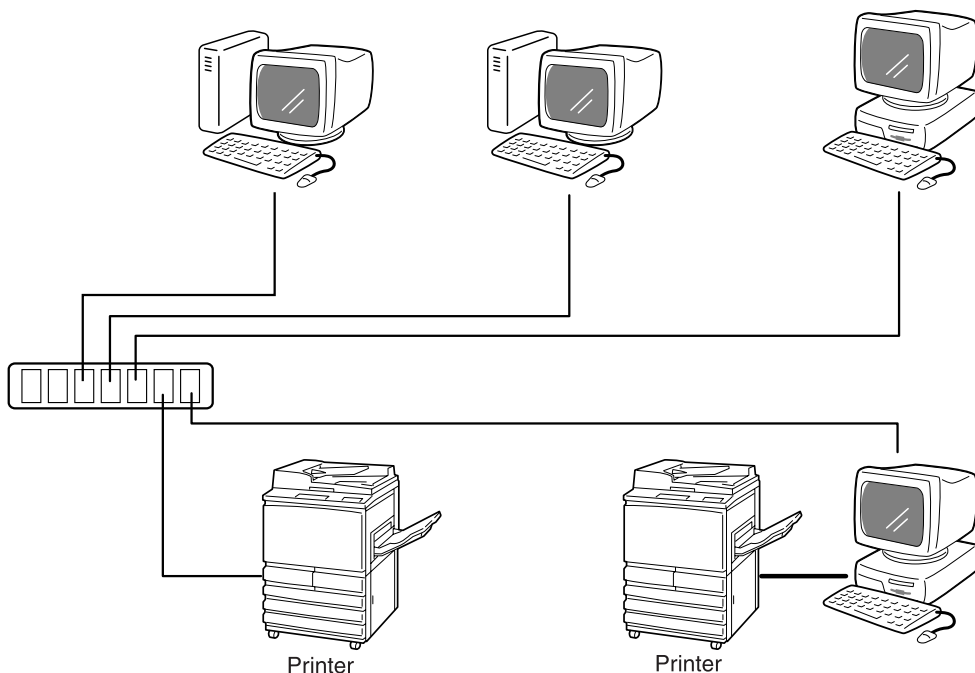
See ●●● "Chapter 9 Using Internet Printing Protocol"



●●● Token Ring

The printer supports Token Ring. When the printer is installed with the optional interface port for Token Ring, you can use the printer in a network environment with NetWare or TCP/IP existing alone or together.

LOOK  When the interface port for Token Ring is installed, the Ethernet interface cannot be used. Also, the items that can be set are also different. When Token Ring is used, refer to the manuals that come with the Token Ring kit. The Token Ring port may not be available. Please see your Panasonic Authorized representative for details.





Setting IP Address for Network Environment

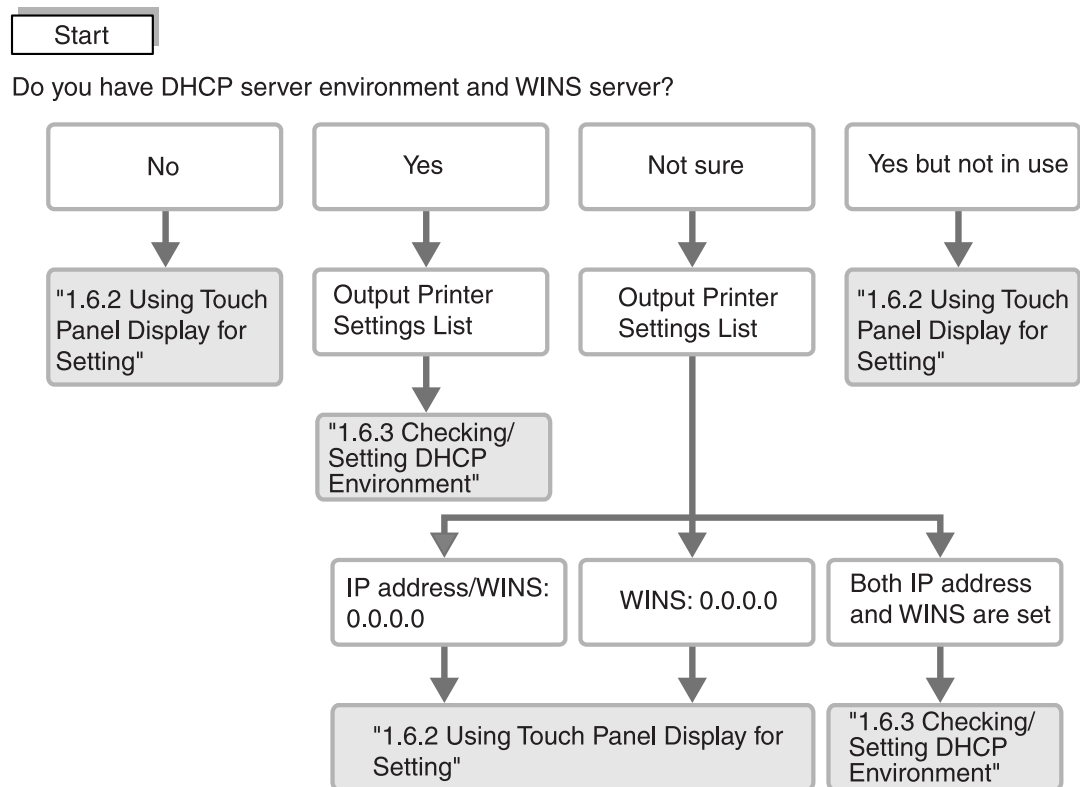
This section describes the necessary settings when installing in a network environment using TCP/IP protocol.

1.6.1 Flow of Setting

Here, we will set the following items:

- IP address
- subnet mask
- gateway address

●●● Setting method

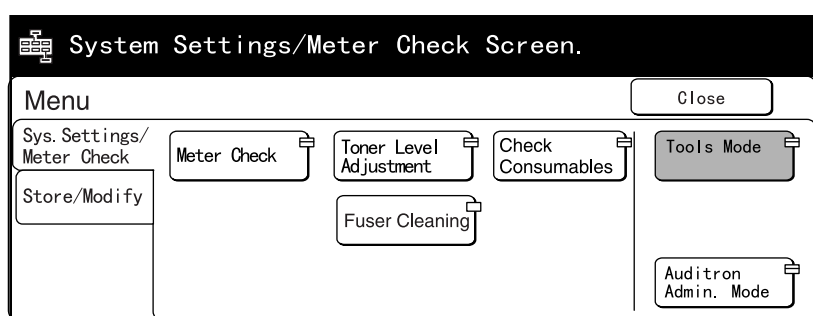


1.6.2 Using Touch Panel Display for Setting

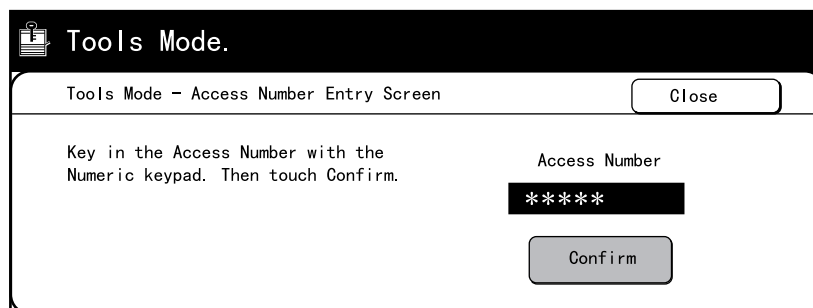
●●● Setting IP address/subnet mask/gateway address

Procedure

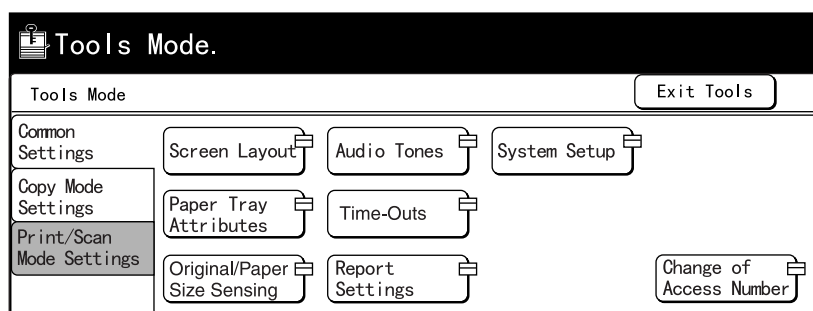
- 1 Press **Settings/Meter Check** on the control panel and on the screen displayed, select **Tools Mode**.



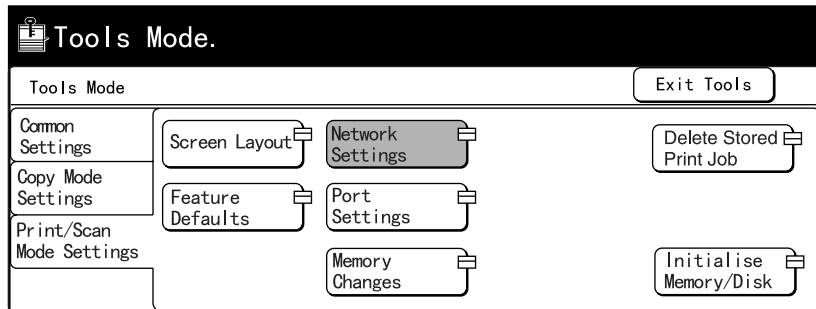
- 2 Enter the access number of the system administrator and touch **Confirm**. The factory default of the access number is "11111".



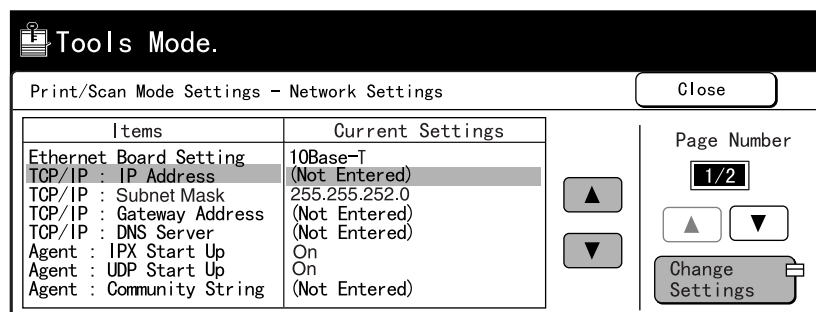
- 3 Select **Print/Scan Mode Settings**.



4 Select Network Settings.



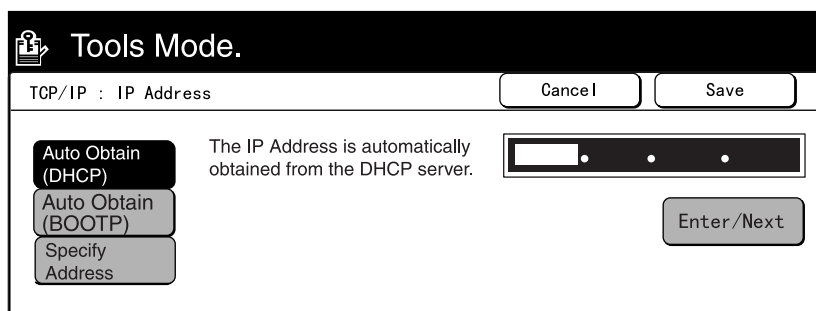
5 Using ▲ or ▼, or by using the finger to touch, select TCP/IP: IP Address and then touch Change Settings.



6 Select Specify Address.



- The IP address will be displayed when there is a DHCP environment.
- The IP address will be set as Auto Obtain (DHCP) for factory settings.



1.6 Setting IP Address for Network Environment

- ⑦ Using the keypad on the control panel, enter the IP address.
Once three digits are entered, it will move to the next bit automatically. To move to the next bit when less than three digits are entered, touch **Enter/Next**.

The screenshot shows a 'Tools Mode' window with a title bar containing a wrench icon and the text 'Tools Mode.'. Below the title bar is a header area with 'TCP/IP : IP Address' on the left and 'Cancel' and 'Save' buttons on the right. The main area contains three buttons on the left: 'Auto Obtain (DHCP)', 'Auto Obtain (BOOTP)', and 'Specify Address'. To the right of these buttons is a text area that says 'The following numbers cannot be registered as the IP Address.' followed by a right-pointing arrow. Below this text are two lines of text: '224-255.NNN.NNN.NNN' and '127.NNN.NNN.NNN'. To the right of this text is an input field with three dots and a right-pointing arrow. Below the input field is an 'Enter/Next' button.

- ⑧ Once the input is completed, touch **Save**.
If necessary, enter the subnet mask and gateway address.
- ⑨ Touch **Close** to display the screen at Step ④.
- ⑩ Touch **Exit Tools**.
The machine will be rebooted.

1.6.3 Checking/Setting DHCP Environment

As Windows NT/Windows 2000 can activate Dynamic Host Configuration Protocol (DHCP), the printer can obtain address information from the DHCP server when there is a Windows NT/Windows 2000 computer on the network.



When in a DHCP environment, use the Windows Internet Name Service (WINS) server at the same time.

If you are not sure if you have a DHCP environment, follow the procedure below to check.

If the DHCP environment has been set up, you do not need to input the IP address as it will be automatically set.

If the DHCP environment is not set up, set the IP address by following the procedure in "1.6.2 Using Touch Panel Display for Setting".

Procedure

① Print out the Printer Settings List by referring to "12.2 How to Print Report/List".

②-① When the following addresses under **Communication Settings** are obtained:
(TCP/IP:) IP Address, Subnet Mask, Gateway Address;
(WINS:) Primary WINS Server Address, Secondary WINS Server Address;

The DHCP server and WINS server are operating. The printer IP address is set by the DHCP server. The name listed in **Host Name** of **SMB** in the printer settings list is registered in the WINS server.

②-② When the following addresses under **Communication Settings** are not obtained:
(TCP/IP:) IP Address, Subnet Mask, Gateway Address;
(WINS:) Primary WINS Server Address, Secondary WINS Server Address;

There are no DHCP server and WINS server. Set the IP address manually by referring to "1.6.2 Using Touch Panel Display for Setting".

②-③ When the following addresses under **Communication Settings** are obtained:
(TCP/IP:) IP Address, Subnet Mask, Gateway Address;
 but the following addresses are not obtained: **(WINS:) Primary WINS Server Address, Secondary WINS Server Address**

There is no WINS server. Do not use the DHCP environment as the printer cannot be used due to a change in the IP address allocated to the machine. Set the IP address manually by referring to "1.6.2 Using Touch Panel Display for Setting".



Setting Port

After setting or checking the IP address, activate the port to be used and the UDP agent. This section describes the procedure to set the LPD port to Enable (factory setting: Enable) as well as the UDP agent to On (factory setting: On) as we will be using remotely controlled software like Auto Configuration.



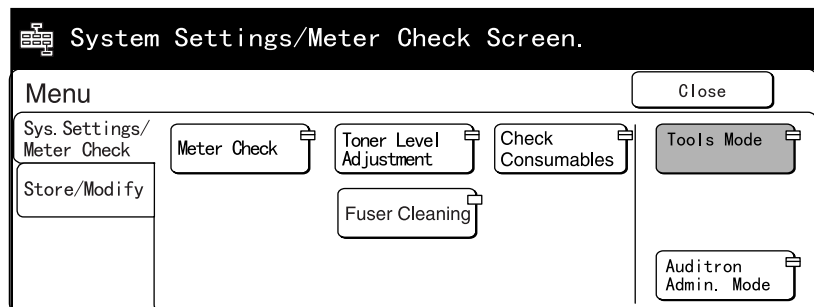
- Refer to "Chapter 7 Setup for Windows Networking" when using SMB port and to "Chapter 8 Setup for NetWare" when using NetWare port.
- Refer to the manuals that come with the PostScript software kit when using EtherTalk port.

1.7.1 Activating Port

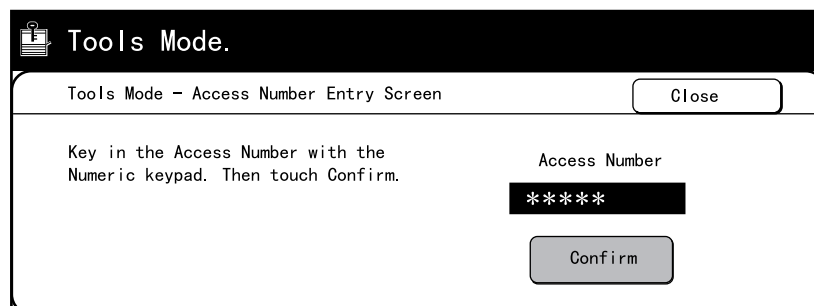
Activate the LPD port by using the touch panel display based on the following procedure:

Procedure

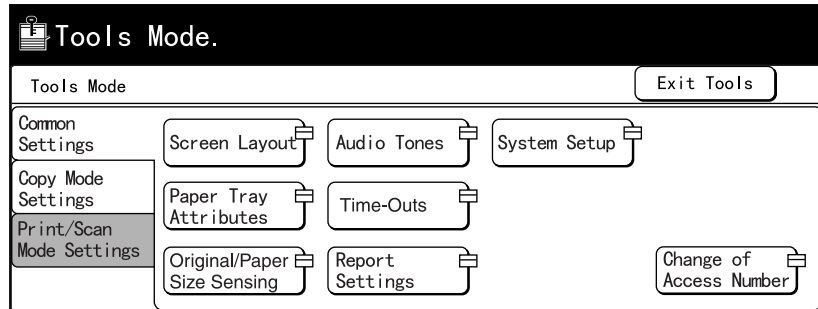
- 1 Press the **Settings/Meter Check** button on the control panel and on the screen displayed, touch **Tools Mode**.



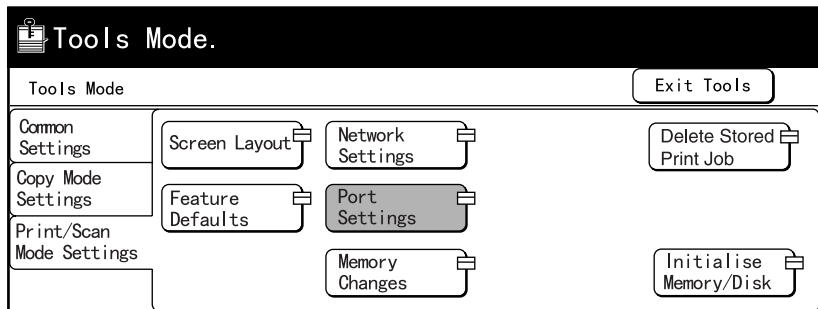
- 2 Enter the access number of the system administrator and touch **Confirm**. The factory default of the access number is "11111".



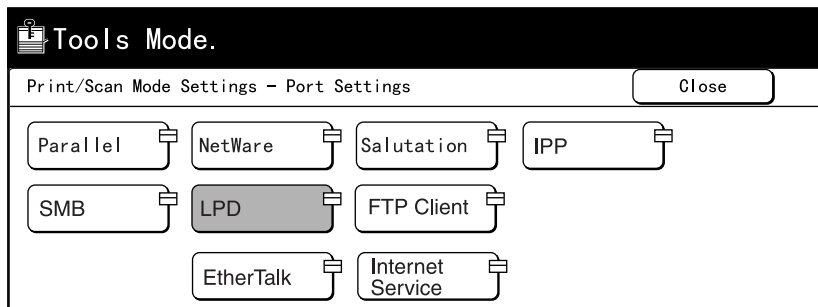
③ Select **Print/Scan Mode Settings**.



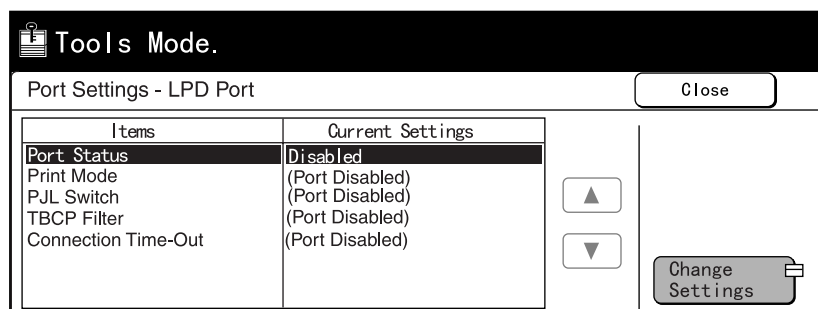
④ Select **Port Settings**.



⑤ Select **LPD**.



⑥ Select **Port Status** and then touch **Change Settings**.



Note

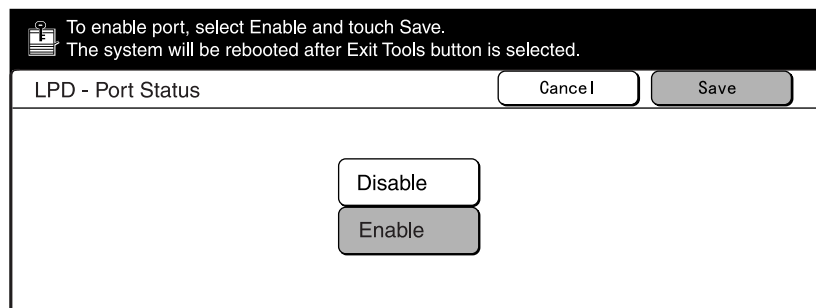
Although the default setting of Port Status is Enable, we display the Disable setting here for illustrating this procedure of activating the port.

1.7 Setting Port

7 Select **Enable**.



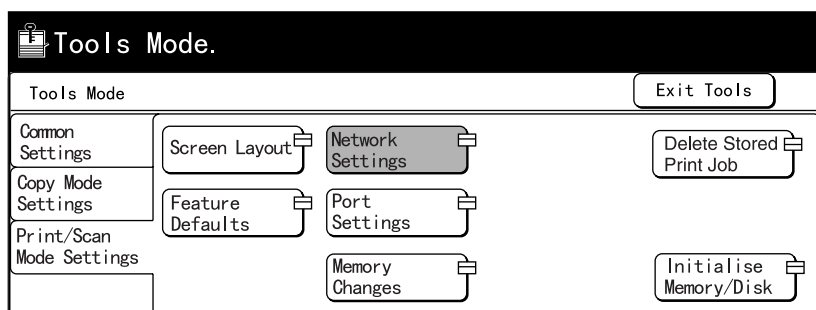
When the IP address has not been entered using Specify Address (factory setting: using Auto Obtain (DHCP)), the screen for setting the IP address will be displayed when LPD is set to Enable. Enter the IP address on the IP address setting screen.



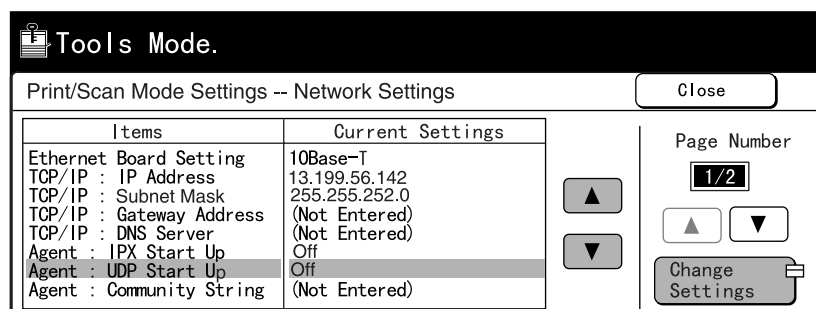
8 Select **Save**.

9 Select **Close** twice.

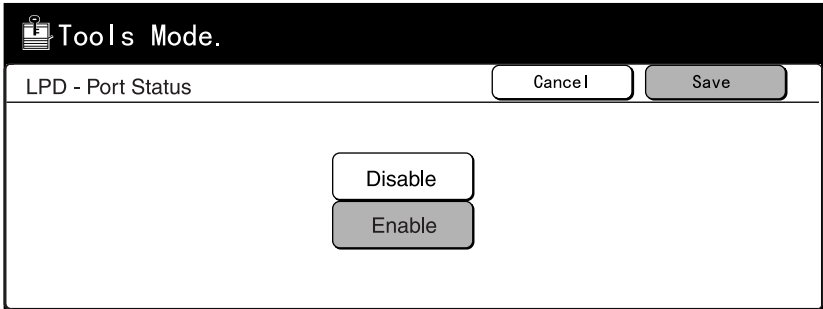
10 Select **Network Settings**.



11 Select **Agent: UDP Start Up** and then touch **Change Settings**.



- 12 Select **Enable** and then touch **Save**.



- 13 Select **Close** to return to the screen of Step 4.
- 14 Select **Exit Tools**.
The machine will be rebooted.

1.7.2 Other setting items

If necessary, define the settings for the following items related to LPD. However, there is no need to change the factory setting of these items under normal conditions.

- LPD Print Mode (Factory setting: PCL*)
- LPD PjL Switch (Factory setting: On)
- LPD TBCP Filter (Factory setting: Enable)
- LPD Connection Time-Out (Factory setting: 16 sec)
- LPD Spool (Factory setting: Hard Disk spool)

See Refer to "Chapter 13 Configuring by the Tools Mode Screen". These items can also be set using Internet Services. Refer to "Chapter 10 Using Internet Services" for information on Internet Services.

- Note**
- * If the optional PostScript software kit is installed, factory setting will be Auto.
 - With LPD, you can store the print data output from the application in the spool file of the printer temporarily to be processed for printing. Set the spool mode by using the LPD spool of the receive buffer capacity.

Spool mode:
The mode which stores print data output from the application in the spool file of the printer temporarily to be processed for printing. You can choose to save the spool file in either the RAM disk which uses the printer memory or the hard disk connected to the printer. As the processing of print data after spooling will be done in the printer, the application in the client is released sooner. Requests from multiple clients can be processed at the same time.

Non spool mode:
The mode which processes printing while the print data output from the application is being received by the printer. When the printer is processing printing request from a client, printing request from other clients cannot be received.



Power Saver

1.8.1 Using the Power Saver Mode

Power saver is a feature to help reduce the power consumption of the machine to save power.

Procedure

- 1 Press the "Power Saver (On/Off)" button on the control panel.
The display will become completely black and the "Power Saver (On/Off)" button will be lit.

Power Saver
(On/Off)



Depending on the state of the printer, both the "Communicating" and "Job in Memory" indicators may be lit.

- 2 To disable the power saver mode, press the lit "Power Saver (On/Off)" button.
The "Power Saver (On/Off)" button will be unlit and the Power Saver mode is off.



When the machine receives a print job, it will automatically exit the Power Saver mode.

Power Saver
(On/Off)



1.8.2 Automatic Power Saver Mode

Even when the "Power Saver (On/Off)" button is not pressed, the machine will automatically switch to a waiting mode if it is left switched on without being used for a certain period of time. This is called the Auto Power Saver mode which consists of the following two modes:

- Low Power Mode: the state where the temperature of the heater is lowered.
- Sleep Mode: the state where the power of the heater is off and power can be saved most.

The machine will automatically enter the Low Power Mode after a certain period of time and then switch to the Sleep mode after another lapse of time. During these two modes, the display will become completely black and the Power Saver (On/Off) button lit.

Once the lit "Power Saver (On/Off)" button is pressed, it will become unlit and the power saver mode will be disabled.



For details on setting the Power Saver and preventing the Power Save mode to enter Sleep Mode, refer to Time-Out and System Setup of "13.2.1 Common Settings".



For the DP-6000/7000 without the printer installed, the Power Saver mode is different. For details, refer to "1.5 Saving Power" and "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).



About the Attached CD-ROM

The files included in the CD-ROM are as follows:

CD-ROM for the printer kit: "PCL6 Printer Driver, Utilities & Documentation"

- PCL6 (PCL 6 printer drivers)
(for Windows 95/98/Me, Windows NT 4.0, Windows 2000)
- DP (Direct Print Utility)
(for Windows 95/98/Me)
- SCN (Network Scanner Utility)
(for Windows 95/98, Windows NT 4.0, Windows 2000)
- ACROBAT (Adobe Acrobat Reader)
(for Windows 95/98, Windows NT 4.0, Windows 2000)
- Manual (in pdf format):
Printer.pdf: "Operating Instructions (For Printer)";
Scanner.pdf: "Operating Instructions (For Scanner)"
- Readme.txt



If you cannot install the software from the CD-ROM directly, copy the contents to a floppy disk first before carrying out the installation.

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2 Setup

2.1	Connecting Interface Cables	26
2.2	Memory Allocation	28



Connecting Interface Cables

When connecting the printer to a host computer directly, use the parallel interface.

When connecting the printer to the network, use the Ethernet or the (optional) Token Ring interface.

This printer can be connected to the parallel and Ethernet interface at the same time. It can receive print data from all the connected interfaces.

CAUTION When connecting the interface cable, switch off the power supply to prevent electric shock.

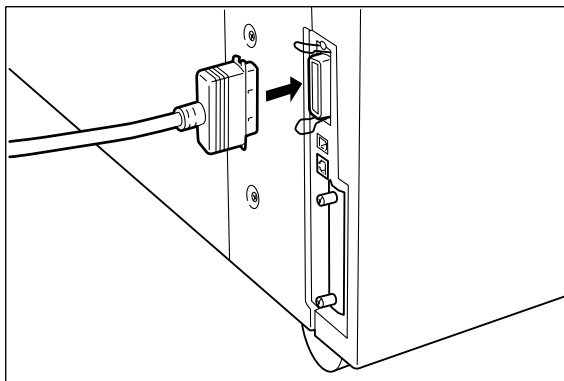
LOOK When the optional Token Ring interface is connected to the printer, you cannot use the Ethernet interface. And as a result, the EtherTalk port cannot be used either.

See When using the optional Token Ring, refer to the manuals of the Token Ring kit.

2.1.1 Parallel

The procedure for connecting to the parallel interface is as follows:

Note When connecting the printer to a host computer using parallel interface, you need parallel interface cable that is IEEE 1284 compliant and less than six (6) feet long or a one that is shielded. For details, contact your local authorized Panasonic service representative.



- 1 Switch off the power supply of the printer and the host computer.
- 2 Insert the interface cable connector to the parallel interface connector and secure it by the wire clips on both sides.
- 3 Connect the other end of the interface cable to the host computer.
- 4 Switch on the power supply.

If necessary, define the following settings:

- Print Mode (Factory setting: PCL*)
- P/L Switch (Factory setting: On)
- Auto Eject Time (Factory setting: 30 seconds)
- Bi-directional Communication (Factory setting: Enable)


See "Chapter 13 Configuring by the Tools Mode Screen" for details on each of the items and the way to set them.

- Note**
- For normal usage, there is no need to change the factory settings of all the items except the bi-directional protocol.
 - * If the optional PostScript software kit is installed, factory setting will be Auto.

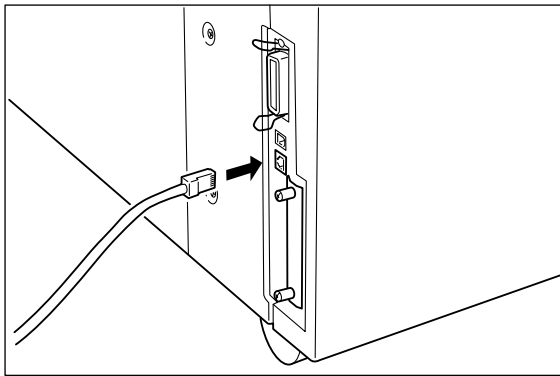
2.1.2 Ethernet

The Ethernet interface supports the following types of cable:

- 100Base-TX (Twisted Pair Cable)
- 10Base-T (Twisted Pair Cable)


Note  The Ethernet interface cannot be installed together with the Token Ring interface.

The procedure for connecting to the Ethernet interface is as follows:



1 Switch off the power supply of the printer.

2 Connect the interface cable to the Ethernet interface connector.

Note  Use an interface cable that is suitable for your network connection.

3 Switch on the printer.

When the printer is connected to a 100Base-TX/10Base-T connector, and you want to fix the transmission speed of either connector, or you want to specify printer settings for the environment used, refer to "Chapter 13 Configuring by the Tools Mode Screen" for details.



Memory Allocation

This section explains how to allocate memory.

2.2.1 Uses

Memory is meant for the following uses:

- System
- Receive buffer
- Page buffer
- PCL memory

2.2.2 Suggested Values

●●● System use

Area used by the printer system, with the capacity remaining unchanged.

●●● Receive buffer use

A receive buffer is prepared for each of the multiple ports so as to receive data from the ports. The various types of buffer are as follows:

- Parallel receive buffer
- SMB spool
- LPD spool
- IPP spool
- NetWare receive buffer
- AppleTalk receive buffer

When you are not using the parallel interface, stop the port, and allocate memory for other uses.

For the NetWare receive buffer, the default value is usually sufficient.

For the AppleTalk receive buffer, it is recommended that as many areas are maintained as possible.

●●● Page buffer use

Area for drawing the actual print image. It is possible to allocate this area from the remaining area after all the other uses have been allocated. To confirm the page buffer capacity, print the Printer Settings List and then check the page buffer capacity. If the page buffer is too small, it will affect the performance and 2 sided printing may be rejected.

●●● PCL memory use

Area for the use of PCL. This memory is used to store the interim data for creating the print image. By increasing the memory capacity, the printing speed may be increased. The memory capacity is 2.50 to 32.00 MB in increments of 0.25 MB. The default is 5.0 MB.



Useful Operations



3.1	Flow of Printing	30
3.2	Checking Job Status	32
3.3	Cancelling Printing From Printer	33
3.4	Forced Outputting	35
3.5	Switching Printer to Offline	37
3.6	Printing vs Copying/Scanning	38

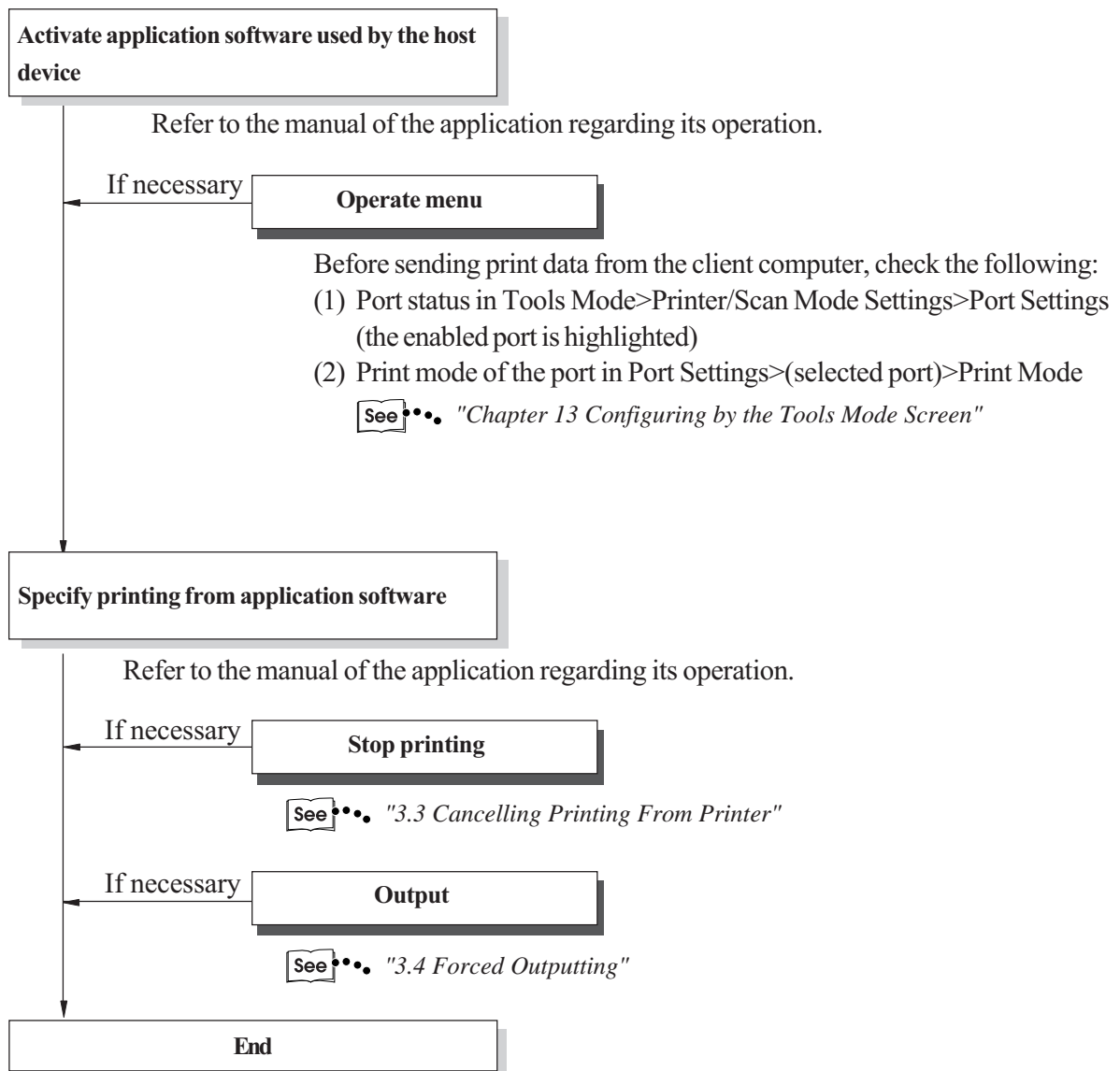


Flow of Printing

3.1.1 For Windows


The basic flow of printing from a Windows environment after installing the printer driver is as follows:

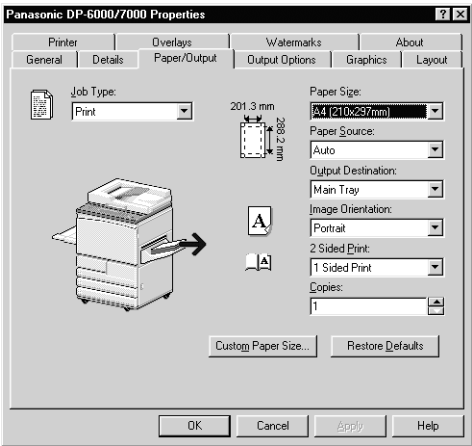
(This may differ according to the host computer and system configuration used.)



3.1.2 Basic Way of Printing

The basic way of printing is as follows.
For details, refer to the online Help in the printer driver.

 *The way to display the printer properties dialog box differs according to the application used. Refer to the manual of the respective application.*

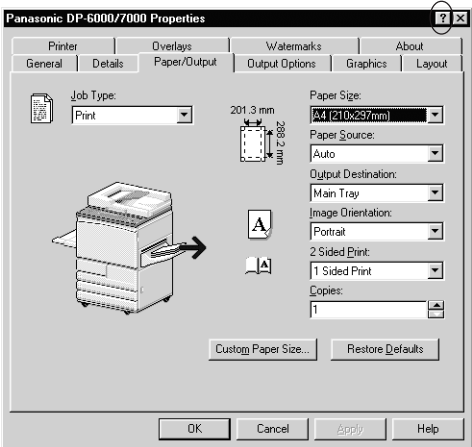


- 1 From the File menu, select **Print**.
- 2 Check that the correct printer is used at the Name list box, and then click **Properties**.
- 3 Click the Paper/Output tab.
- 4 If necessary, define the various settings on this tab.
- 5 If necessary, define the settings on other tabs.
- 6 Click **OK**.

3.1.3 Online Help

Refer to the online Help for explanation on each of the printer driver items and on the operation during printing.

 *"4.3 Configuring the Printer Drivers" for details on the printer driver items.*



- 1 Click the "?" at the top right corner of the window of the printer driver screen.
- 2 With the mouse pointer having an "?" attached, click on top of the item which you need an explanation.

The explanation will be displayed in a pop-up window.
Click anywhere on the screen to close the



Checking Job Status

The status of jobs stored in the memory can be checked by pressing the button, **Job Status ► Stop** on the control panel.



You can also check the job status of the printer using Internet Service.

Procedure

1

Press **Job Status ► Stop** on the control panel.

The Job Status screen is displayed.



2

Check the job status and touch **Close**.

To check the detailed contents, touch the job directly by your fingers.



- Select ▼ to display jobs that you are looking for and to return to the previous screen, select ▲.
- To check the contents of Scan Job and Mailbox, see the Operating Instruction (For Scanner).
- If Output Waiting Jobs is selected, jobs with "Print Wait" messages can be output when the print preparation is complete. If Output Waiting Jobs cannot be selected, wait awhile before trying again.

3

Check the contents and touch **Exit**.



Cancellling Printing From Printer

To cancel a print job in process, cancel it from the host computer first. When you are not able to do so, choose one of the following operations to be done from the printer.

- 3.3.1 Cancellling Jobs in Process
- 3.3.2 Cancellling Jobs in the Printer



If printing is to be cancelled from the host computer, refer to the manual of the application software used.

3.3.1 Cancellling Jobs in Process

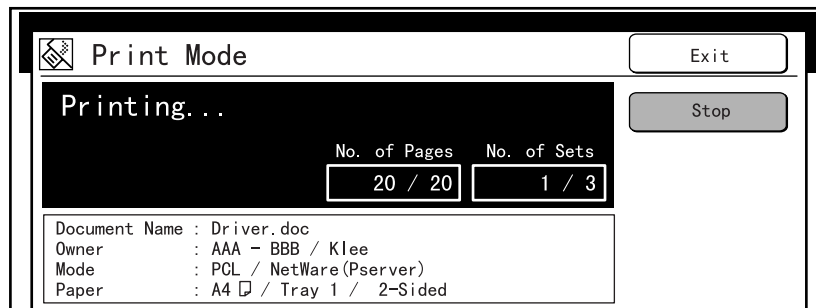
Procedure

- 1 Press the button, **Stop** on the control panel or select **Stop** on the screen.
The printer will be stopped temporarily.

Stop



or



- 2 Press the button, **Clear C** on the control panel.
The job will be erased and printing stopped. However, the page that is being printed will be printed completely and then output.


Clear



*Printing can be cancelled from the Job Status Check screen.
See "3.3.2 Cancellling Jobs in the Printer".*

3.3.2 Cancelling Jobs in the Printer

The procedure to cancel jobs that are stored in the printer is as follows:

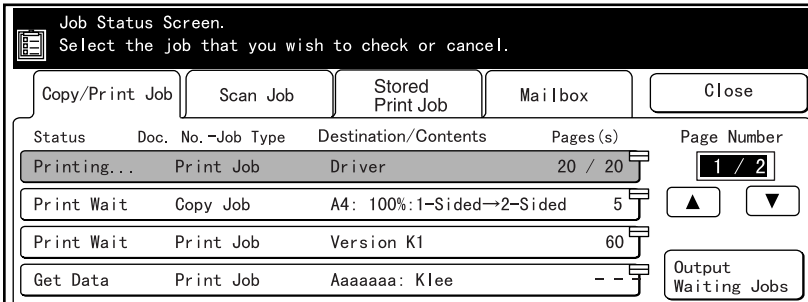
Note  Once this operation is carried out, the data will be erased.

Procedure

- ① Press **Job Status ▶ Stop** on the control panel.
The Job Status screen is displayed.

Job Status ▶ Stop

- ② Touch the job that you need to cancel directly with your finger on the Job Status screen.




Job Status Screen.
Select the job that you wish to check or cancel.

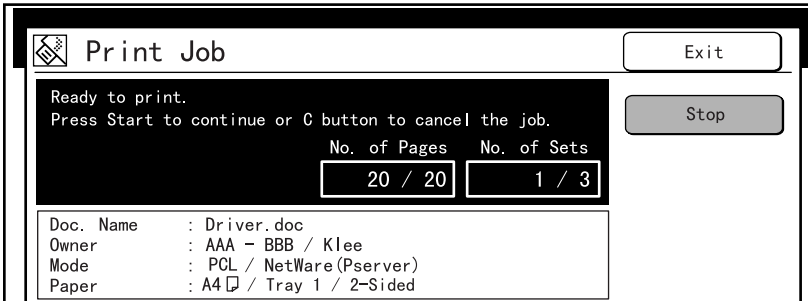
Copy/Print Job Scan Job Stored Print Job Mailbox Close

Status	Doc. No.	Job Type	Destination/Contents	Pages(s)	Page Number
Printing...		Print Job	Driver	20 / 20	1 / 2
Print Wait		Copy Job	A4: 100%:1-Sided→2-Sided	5	▲ ▼
Print Wait		Print Job	Version K1	60	
Get Data		Print Job	Aaaaaa: Klee	--	

Output Waiting Jobs

Note  Select ▼ to display the jobs that you are looking for and to return to the previous screen, select ▲.

- ③ Select **Stop** from the screen displayed.
Jobs in process will be stopped temporarily. Jobs in waiting will have a "The print job in the print queue will be deleted. Are you sure?" confirmation screen displayed.



Print Job

Ready to print.
Press Start to continue or C button to cancel the job.

No. of Pages No. of Sets
20 / 20 1 / 3

Doc. Name : Driver.doc
Owner : AAA - BBB / Klee
Mode : PCL / NetWare(Pserver)
Paper : A4 □ / Tray 1 / 2-Sided

Exit Stop

- ④ To cancel jobs in process, press the button, **Clear C** on the control panel. For jobs in waiting, select **Yes** on the confirmation screen.
- ⑤ For all the jobs that you want to cancel, repeat Steps ① to ④.



3.4 Forced Outputting

This section explains about forced outputting which consists of the following two types:

- 3.4.1 Outputting Waiting Jobs
- 3.4.2 Outputting in Emulation Mode

3.4.1 Outputting Waiting Jobs

Procedure

- 1 Press the button, **Job Status ▶ Stop** on the control panel.
The Job Status screen is displayed.




- 2 Select **Output Waiting Jobs** on the Job Status screen.
Jobs with "Print Wait" message can be output when they are ready to print.

Job Status Screen.
Select the job that you wish to check or cancel.

Status	Doc. No.	-Job Type	Destination/Contents	Pages(s)	Page Number
Printing...		Print Job	Driver	20 / 20	1 / 2
Print Wait		Copy Job	A4: 100%:1-Sided→2-Sided	5	▲ ▼
Print Wait		Print Job	Version K1	60	
Get Data		Print Job	Aaaaaa: Klee	--	

Output Waiting Jobs

Note  If Output Waiting Jobs cannot be selected, wait awhile before trying again.

3.4.2 Outputting in Emulation Mode

Procedure

- 1 Press the button, **Job Status ▶ Stop** on the control panel.



- 2 On the Job Status screen displayed, touch with your finger directly on the job displayed with "Data Wait" message.

Job Status Screen.
Select the job that you wish to check or cancel.

Status	Doc. No.	Job Type	Destination/Contents	Page(s)	Page Number
Printing...		Print Job	Driver	20 / 20	1 / 2
Print Wait		Copy Job	A4: 100%:1-Sided→2-Sided	5	
Print Wait		Print Job	Version K1	60	
Get Data		Print Job	- - -	20	

Buttons: Copy/Print Job, Scan Job, Stored Print Job, Mailbox, Close, ▲, ▼, Output Waiting Jobs

Note Select ▼ to display the jobs that you are looking for and to return to the previous screen, select ▲.

- 3 From the screen displayed, select **End Receive Data**.
Printing starts.

Note When there are jobs that are being printed or that are waiting to be printed, printing will start only when the processing of these jobs is completed.

Print Mode

Receiving Data

No. of Pages: 20

Document Name : - - -
Owner : - - -
Mode : PCL
Paper : A4 / Tray 1 / 2-Sided

Buttons: Exit, Stop, End Receive Data



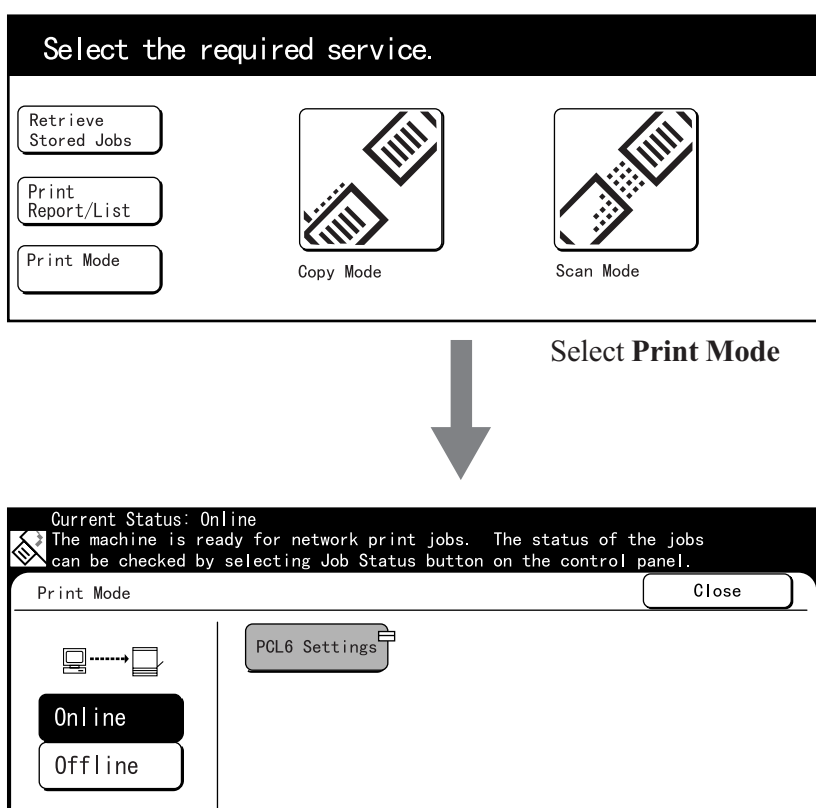
Switching Printer to Offline

Select **Print Mode** from the Menu screen to switch the printer to offline.

Once **Offline** is selected, the printer will not be able to receive data. Also, data that is being transmitted will be interrupted and cannot be printed.

Select **Online** for the printer to resume receiving of data.

Menu screen

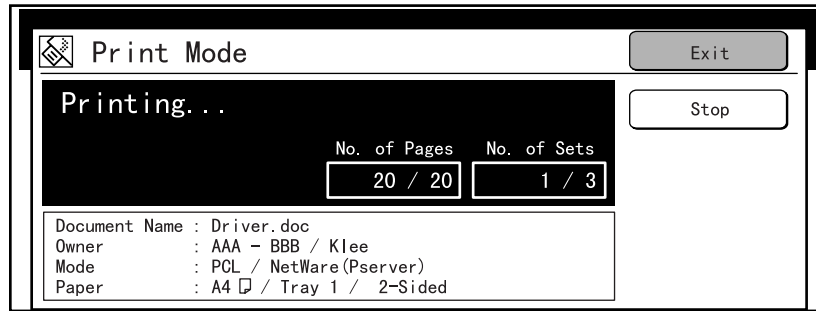




Printing vs Copying/Scanning

The touch panel display will be as follows during printing or transmission.

When **Exit** is selected on the screen displayed, the next copying/scanning operation can be programmed ahead without disrupting the current printing operations.



The following table explains about the relationship between the printing function and the copying/scanning function.

Control Panel Operations	Printer Actions
Defining the copy/scan settings	Cannot print but can receive printing instructions from computers. After a certain time has passed after the settings, the document sent by the computer will be printed. During copying/scanning, printing cannot be done. After these jobs are completed, documents sent by the computer will be printed in the order received.
Select Exit during printing	Copying/scanning operations can be programmed ahead without disrupting the current printing operation.
Press Interrupt during printing	Printing will be stopped temporarily and the copy/scan functions can be used. However, printing instructions can be received from the computers. When Interrupt is pressed again to exit the interrupt mode, printing will restart. Even during the interrupt mode, the print processing will start if no operations are carried out after a certain time*. Documents sent by the computer will be printed according to the order received.

*: This time setting is done from the Tools Mode screen. See "Chapter 13 Configuring by the Tools Mode Screen" for details on the setting method.

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4

Installing/ Configuring the Printer Drivers

4.1	About the Printer Drivers	44
4.2	Installing/Uninstalling the Printer Drivers	45
4.3	Configuring the Printer Drivers	51



About the Printer Drivers

This section gives an overview of the printer drivers.

4.1.1 The PCL 6 Printer Drivers

The PCL 6 printer drivers are installed on Windows operating systems to provide a standard interface between an application program and the printer. By installing these printer drivers, print jobs are converted into the PJP and PCL 6 printer languages and then printed through the printer device.

These printer drivers are system specific, each will only run on either Windows 95/98/Me, or Windows NT 4.0/Windows 2000. There are altogether two different printer drivers provided:

- PCL 6 printer driver for Windows 95/98/Me
- PCL 6 printer driver for Windows NT 4.0/Windows 2000

4.1.2 Installation/Configuration Methods

The methods of installing/configuring these different printer drivers as well as the procedures for printing using these drivers are basically the same. Regardless of the operating system (OS) you are using, the basic steps are similar except for the look of some of the dialog boxes. Only one printer driver will be used to discuss these operations in this chapter but any differences among these drivers will be pointed out.

4.1.3 Settings on the Printer

Make sure the PJP switch for the interface is turned to **ON**. If the PJP switch is turned to **OFF**, the following functions will be disabled:

- Collate
- Staple
- Punch
- Image Enhancement

To turn the PJP switch:

1. Select **Settings/Meter Check** on the control panel of the printer.
2. Select **Tools Mode** in LCD display.
3. Select **Print/Scan Mode** Setting.
4. Select **Port** Settings.
5. Select **IPP**.

And you can reach to the **PJP** Switch.



Installing/Uninstalling the Printer Drivers

This section describes the procedure for installing and uninstalling the printer drivers.

Two methods of installation are described here, one for a local printer and the other for a network printer. If you have installed an earlier version of the printer driver, uninstall it first by following the procedure in 4.2.3 before installing the new version.



You can also use the Add Printer Wizard to install the printer driver. Refer to ReadMe in CD-ROM (PCL Printer Driver, Utilities & Documentation) for more details.

4.2.1 For a Local Printer

Local printer refers to a printer that is directly connected to your computer.

Procedure

- 1 Start Windows 95, Windows 98, Windows Me, Windows NT 4.0 or Windows 2000.



In this example, we will install the PCL 6 driver on the Windows 98 OS.

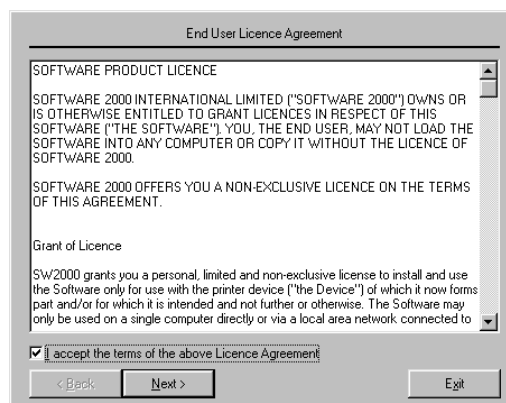
- 2 Click **Start** and select **Run**.
The "Run" dialog box appears.

- 3 Insert in the "PCL Printer Driver, Utilities & Documentation" CD-ROM and enter "E:\Driver_PCL6\Win9x_Me\Setup\Setup.exe" on the Run dialog box. Then click **OK**.



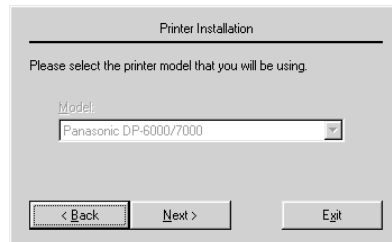
In this example, we assume that drive E is the CD-ROM drive. Enter the appropriate letter for your CD-ROM drive.

- 4 The "End User Licence Agreement" dialog box appears.
Read through the licence agreement carefully. If you have no objections to it, click on the checkbox for "I accept the terms of the above Licence Agreement" and then click **Next**.

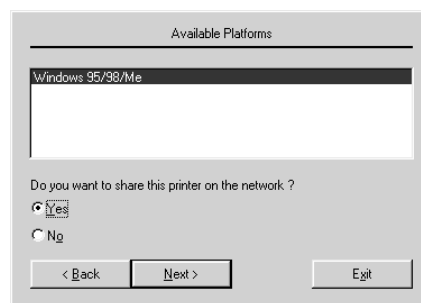


4.2 Installing/Uninstalling the Printer Drivers

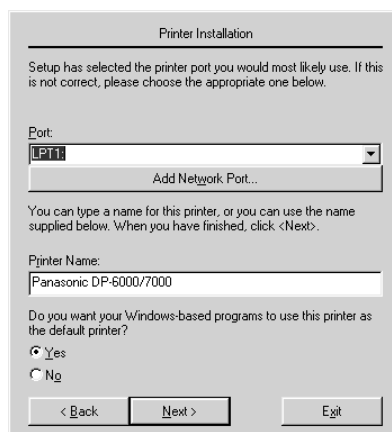
- 5 The "Printer Installation" dialog box appears. Check the printer model and then click **Next**.



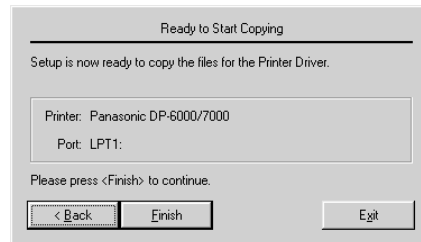
- 6 The "Available Platforms" dialog box appears. Choose **Yes** or **No** in "Do you want to share this printer on the network?". Then click **Next**.



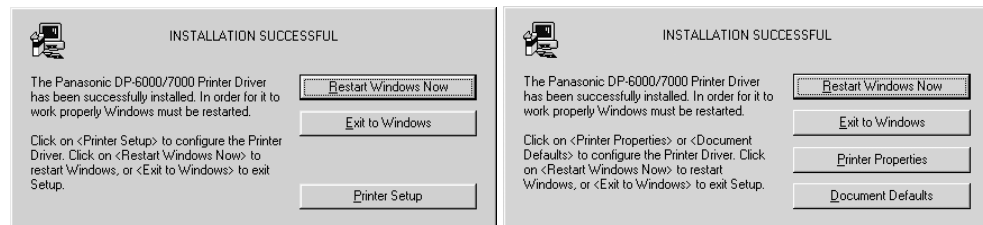
- 7 The "Printer Installation" dialog box appears. Determine the Port and Printer Name. Then click **Next**.



- 8 The "Ready to Start Copying" dialog box appears.
Click **Finish** to continue.



- 9 After the installation is completed, the following "Installation Successful" dialog box appears.



For Windows 95/98/Me

For Windows NT 4.0/Windows 2000

- 10 To restart the system, click **Restart Windows Now**.
To exit the installation, click **Exit to Windows**.
To configure the printer driver, click **Printer Setup** (for the Windows 95/98/Me driver) or **Printer Properties** and **Document Defaults** (for the Windows NT 4.0/Windows 2000 driver).

See ... "4.3 Configuring the Printer Drivers" for details on configuring the printer driver.




- You must restart Windows in order for the driver to work properly.
- You may run the "Setup.exe" program to install the Windows 95/98/Me printer driver as an alternate driver on the Windows NT/Windows 2000 server (workstation) after you have installed the printer driver for Windows NT 4.0/Windows 2000. In this case, as there is no need to restart Windows, click Exit to Windows. When downloading the alternate Windows 95/98/Me driver installed in Windows NT/Windows 2000, on the Windows 95/98/Me client computer, use the "Add Printer Wizard" dialog box.

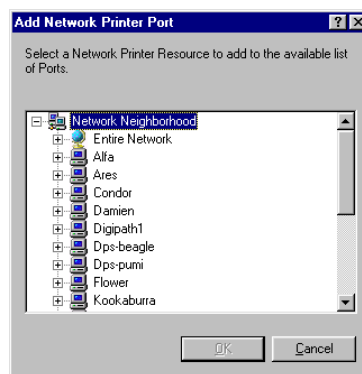
4.2.2 For a Network Printer

Network printer refers to printer that is connected to your computer through a network.

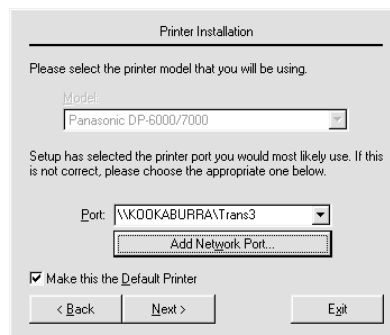
Procedure

- ❶ Follow Steps ❶ to ❷ of "4.2.1 For a local printer" to display the "Printer Installation" dialog box.
- ❷ Click **Add Network Port**.
The "Add Network Printer Port" dialog box appears. Select the network printer from **Network Neighborhood** and then click **OK**.

Note  If you do not know the network address of the network printer, consult your system administrator.



- ❸ The "Printer Installation" dialog box showing the network path of the network printer appears.
Click **Next**.



- ❹ Follow Steps ❸ to ❹ of "4.2.1 For a local printer" to complete the installation procedure.

4.2.3 Uninstalling the Printer Drivers



Note

- For drivers installed by the "Setup.exe" program, use the "Unsetup.exe" program to uninstall.
- For Windows 95/98/Me alternate drivers installed in Windows NT/Windows 2000 server (workstation), use the "Unsetup.exe" program to uninstall the Windows 95/98/Me drivers and then activate the "Unsetup.exe" program of the Windows NT/Windows 2000 driver.
- To uninstall the alternate drivers downloaded using the "Add Printer Wizard" dialog box at the client computer, open the "Printers" window and erase the applicable printer icons.

Procedure

1

Click **Start** and select **Run**.

In the "Run" dialog box displayed, click **Browse**.



Note

In this example, we will uninstall the PCL 6 driver on the Windows 98 OS.

2

Insert in the "PCL Driver/Network Utility (Windows)" CD-ROM and select the CD-ROM drive in the "Browse" dialog box.

Next, select (Driver_PCL6\Win9x_Me\Setup) Unsetup.exe from the CD-ROM and click **Open** to close the "Browse" dialog box.



Note

When uninstalling any driver, remember to use the "Unsetup.exe" program of the correct driver and of the same version as the "Setup.exe" program used for installation.

3

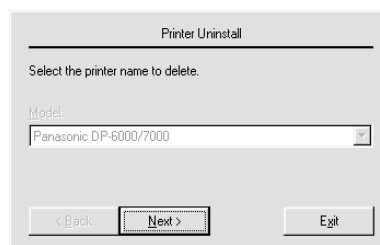
The path for the unsetup program appears in the "Run" dialog box.

Click **OK** to continue.

4

The following "Printer Uninstall" dialog box appears.

Check the printer model and then click **Next**.

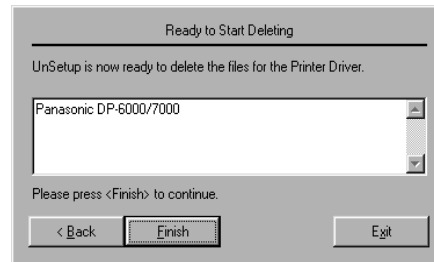


5

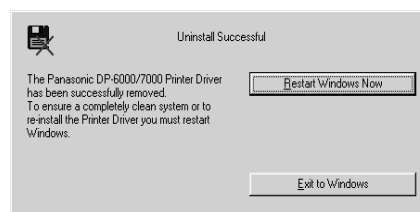
The following "Ready to Start Deleting" dialog box appears.

4.2 Installing/Uninstalling the Printer Drivers

Click **Finish** to continue.



- ⑥ When the uninstallation is completed, click **Restart Windows Now** to ensure that the driver is completely removed from the system.





Configuring the Printer Drivers

This section describes how to configure the printer driver from the printer properties dialog box. This dialog box will appear if you click **Printer Setup** (for the Windows 95/98/Me drivers) or **Printer Properties** (for the Windows NT 4.0/Windows 2000 drivers) on the "Installation Successful" screen. If you have quit the printer setup program, follow the procedure in "4.3.1 Accessing the Printer Properties Dialog Box" to display this dialog box.

The printer properties dialog box includes many tabs for you to set up the printing conditions, such as "Printer" and "Paper/Output". You will need to specify the appropriate options on the "Printer" tab first before the other tabs. If not, the other tabs may not show options appropriate to your machine.

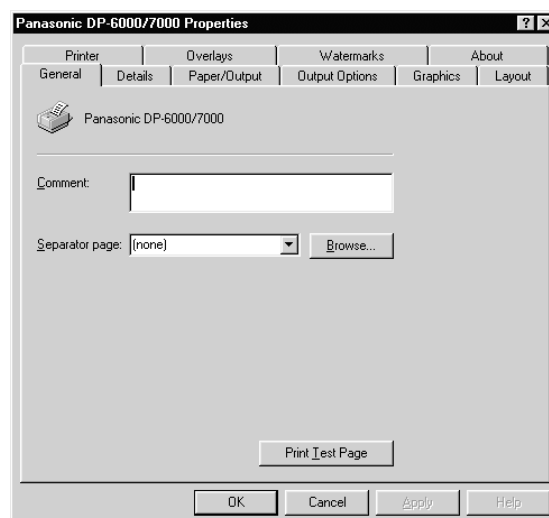
For the Windows NT 4.0/Windows 2000 drivers: You have to define settings on the "Printer" tab from this printer properties dialog box before accessing the *document default* dialog box (for the Windows NT 4.0 driver) or *printing preferences* dialog box (for the Windows 2000 driver) to define the other properties.

For details of all the different properties, refer to "4.3.2 Setting the Printer Properties".

4.3.1 Accessing the Printer Properties Dialog Box

●●● For Windows 95/98/Me

- 1 Click **Start**, select **Settings**, followed by **Printers**.
The "Printers" window appears.
- 2 Select "Panasonic DP-6000/7000" printer icon.
- 3 Select **Properties** from the "File" menu to display the "Properties" dialog box.



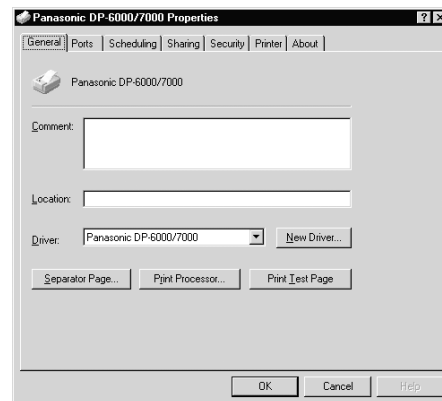
4.3 Configuring the Printer Drivers

●●● For Windows NT 4.0/Windows 2000

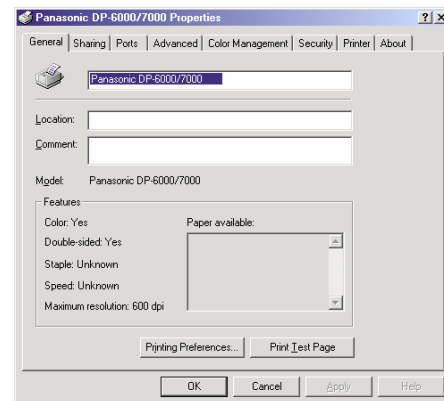
Accessing the printer properties dialog box

- ❶ Follow Steps ❶ and ❷ of the procedure for Windows 95/98/Me to select the Panasonic DP-6000/7000 printer icon.
- ❷ Select **Properties** from the "Printer" menu to display the following "Properties" dialog box.

Note  Define the Printer settings for the PCL 6 driver.




For Windows NT 4.0

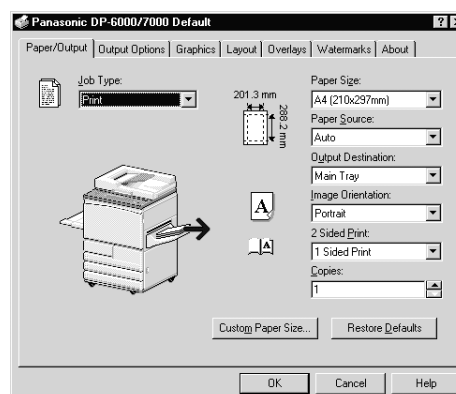


For Windows 2000

Accessing the document defaults/printing preferences dialog box

- ❶ Follow Steps ❶ and ❷ of the procedure for Windows 95/98/Me to select the Panasonic DP-6000/7000 printer icon.
- ❷ Select **Document Defaults (Printing Preferences for Windows 2000)** from the "Printer" menu to display the following document default/printing preferences dialog box to define settings on the other tabs.

Note  For Windows 2000: You can also click the "Printing Preference" button on the "General" tab of the printer properties dialog box to display the printing preferences dialog box.



4.3.2 Setting the Printer Properties

Through the printer properties (and document default/printing preference) dialog box, the printer driver will provide an interface for you to ensure that the driver settings match those of the physical printer and to select printer option settings for the different properties.

The settings made here will be the default printer configuration for printing the subsequent job.

Although an application may change the page setup each time a job is printed, it will not affect these default settings. Changes to these configurations can only be made through these dialog boxes.

Before listing the different properties of each tab, here is a summary of them:

- **Printer**

Settings here include the printer hardware options installed (e.g. High Capacity Feeder and Finisher) and other printer settings that are not configured frequently, like Error Report, Select Substitution Tray, Bypass Feed Orientation, and Job Owner Settings.

(for Windows NT 4.0/Windows 2000 drivers: Device Halftoning)

- **Paper/Output**

This property controls several aspects of how the printer works with paper and how it handles a print job. Settings include Job Type, Paper Size, Paper Source, Output Destination, Image Orientation, 2 Sided Print and number of Copies.

- **Output Options**

Includes settings on how the printed output is to be processed. Settings include Collate, Staple Position, Punch Position, and if you want the First Sheet from a different tray.

(for Windows NT 4.0/Windows 2000 drivers: EMF Spooling)

- **Graphics**

Settings contained here control the quality of printed output as well as how the graphics and TrueType fonts will be processed and printed.

(for Windows NT 4.0/Windows 2000 drivers: Halftone Color Adjustment)

- **Overlays**

Allows you to create, use and delete page overlays for the printer.

- **Layout**

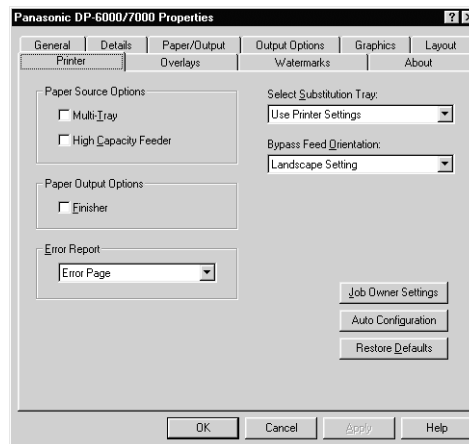
This property provides six job finishing features to modify the printed layout: Multi-Up, Booklet Creation, Fit To Output Size, Zoom, Logical On Physical, and Poster.

- **Watermarks**

A Watermark is a light image printed in the background on a page. The PCL 6 driver allows text (as watermark) to be printed in the background or foreground and placed across the first page or all pages of a document. This property dialog allows you to create, delete and modify such watermarks.

4.3 Configuring the Printer Drivers

Printer



The "Printer" tab defines two main types of settings: the current hardware configuration of the printer (**Paper Source Options** and **Paper Output Options**) as well as other printer settings that are not configured frequently. The hardware options installed to your printer must be correctly indicated here. You can simply click **Auto Configure** to display the correct hardware option settings.

Paper Source Options

Specify the optional paper source that can be attached to your printer other than the standard tray.

Multi-Tray

(This Option is not available)

High Capacity Feeder (default condition: off)

Select this if your printer is installed with the High Capacity Feeder. The printer image display on the "Paper/Output" tab will be updated once this is selected.



- If High Capacity Feeder is not checked, Tray 6 (High Capacity) will not be available for Paper Source on the "Paper/Output" tab.

Paper Output Options

Specify the optional paper output devices that can be attached to your printer for additional capacity over the standard tray.

Finisher (default condition: off)

Select this if your printer is installed with this the finisher.



- If Finisher is not checked, Finisher Tray 1 and Finisher Tray 2 will not be available for Output Destination on the "Paper/Output" tab.

Error Report

Specify whether or not errors are to be reported when printing a PCL 6 job. Options include:

- No Reporting
The printer will not generate any error report.
- Error Page (default)
Error page will be printed when the printer encounters an error in printing the job.

Select Substitution Tray


Specify the output action when the tray with the paper size specified by the print job is not found. Options include:

- Use Printer Settings (default)
Paper will be fed according to the printer settings.
- Use Bigger Size (No Zoom)
The next bigger size to the specified paper size will be used for outputting the job without adjusting the image size and position. However, if a larger paper size is not available, a smaller paper size will be used.
- None (Abort Job)
The print job will be aborted.

Bypass Feed Orientation

Specify the orientation of the paper to be loaded in the bypass tray. Options include:

- Landscape Setting (default)
- Portrait Setting

Note  Even when Portrait Setting has been selected, some paper sizes need to be loaded and fed only in landscape orientation because of the bypass tray specification.

Device Halftoning (for Windows NT 4.0/Windows 2000)

Click to display the "Device Color/Halftone Properties" dialog box to define the color and halftone properties for the printing device.


Job Owner Settings

Click to display the Job Owner Settings dialog box to define the job owner name, which is required by the printer to generate the Print Volume Report. The name can be entered in 1 to 31 characters. If you do not specify the name, the printer will use the user's login name.

Auto Configuration

Click to automatically display the correct hardware options (**Paper Source Options** and **Paper Output Options**) instead of manually specifying each device option. The driver will detect the configuration of your printer through the network and automatically set up these options. Once the printer has been configured automatically, the printer network address will be displayed on the tab, right below **Error Report**.

To use this feature, you will need to activate the SNMP Agent at the printer.

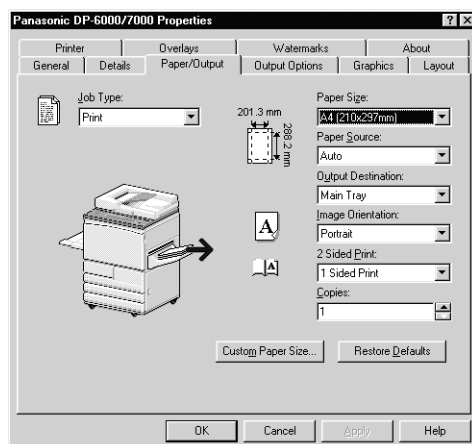
Note  You may be prompted to select either Broadcast or Printer Network Address to search, and either TCP/IP or IPX as the protocol to search for the printer network address in some cases.

Restore Defaults

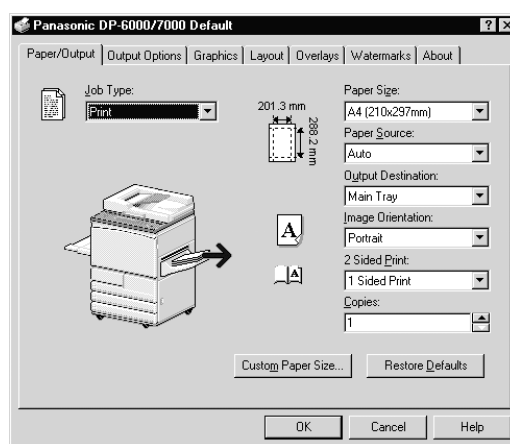
Restore the settings in the dialog box to their default values.

4.3 Configuring the Printer Drivers

●●● Paper/Output



For Windows 95/98/Me



For Windows NT 4.0/Windows 2000

The "Paper/Output" tab has option settings that determine the print environment in which a job is printed. Notice that there are image displays of the job type, paper size, image orientation and 2 sided print on the left of these combo boxes, which will change according to the selections made. There is also a display of the printer with clickable image areas of the paper input and output devices. You can either click on these displays or choose from the combo boxes to make selections.

Job Type

Specify the type of job that you want to output. Options include:

- Print (default)
Select this for the usual print job.
- Secured Print
Select this when you want to keep the job in the printer, and to be printed only when requested from the printer control panel.
- Sample Set
Select this when you want to print only the first copy of multiple collated copies as sample. The rest of the copies will be stored in the printer until requested from the printer control panel.



"Appendix D Printing Secured Print and Sample Set Jobs" for details on printing secured print and sample set jobs.

Paper Size

Specify the paper size to be used. Options include:

- A4 (210 × 297 mm)
- 11 × 17" (Ledger)
- 8.5 × 14" (Legal)
- 5.5 × 8.5" (Statement)
- A3 (297 × 420 mm)
- 8.5 × 11" (Letter) (default)
- A5 (148 × 210 mm)
- B4 (257 × 364 mm)
- B5 (182 × 257 mm)
- 8.5 × 13" (Folio)
- A6 (105 × 148 mm)
- B6 (128 × 182 mm)
- 8K (267 × 388 mm)
- Booklet on Letter
- Booklet on Ledger
- Booklet on A4
- Booklet on A3



Note You can define your own paper size by clicking the Custom Paper Size button.

Paper Source

Specify the tray to use. Options include:

- Auto (default)
Paper will be automatically selected.
- Tray 1
- Tray 2
- Tray 3
- Tray 4
- Tray 5 (Bypass)
- Tray 6 (High Capacity)

(available only if **High Capacity Feeder** is selected for **Paper Source Options** on the "Printer" tab)

4.3 Configuring the Printer Drivers

The paper sizes available for each paper source are as follows:

Paper Size	Auto	Tray 1	Tray 2	Tray3/Tray 4	Tray 6
A4	○	○	○	○	○
11 × 17"	○	×	○	○	×
8.5 × 14"	○	×	○	○	×
5.5 × 8.5"	○	○	○	○	×
A3	○	×	○	○	×
8.5 × 11"	○	○	○	○	○
A5	○	○	○	○	×
B4	○	×	○	○	×
B5	○	○	○	○	○
8.5 × 13"	○	×	○	○	×
A6	×	×	×	×	×
B6	×	×	×	×	×
<i>Bk on Letter*</i>	○	○	○	○	○
<i>Bk on Ledger*</i>	○	×	○	○	×
<i>Bk on A4*</i>	○	○	○	○	○
<i>Bk on A3*</i>	○	×	○	○	×
Custom	×	×	×	×	×



- ×: Not supported; ○: supported; Bk: Booklet
- Tray 5 (Bypass) supports all paper sizes, except Booklet on Letter, Booklet on Ledger, Booklet on A4 and Booklet on A3.
- * not available for any of the paper source if Fit To Output Size or Logical On Physical is selected for Layout Mode on the "Layout" tab.

Output Destination

Specify an output destination. Options include:

- Main Tray (default)
(not available together with any of the finisher trays)
- Finisher Tray 1
(available only if **Finisher** is selected for **Paper Output Options** on the "Printer" tab;
not available together with the Main Tray)
- Finisher Tray 2
(available only if **Finisher** is selected for **Paper Output Options** on the "Printer" tab
and **Tray 5 (Bypass)** is *not* selected for **Paper Source** on the "Paper/Output" tab;
not available together with the Main Tray)

Image Orientation

Specify the orientation of the image when printed.

- Portrait (default)
Portrait means the page is printed with the height of the image greater than the width.
- Landscape
Landscape means the page is printed with the width of the image greater than the height.

2 Sided Print

Specify whether you want to print on one or both sides of the paper.

If you are printing on both sides, you have to decide on whether to align to the long or short edge of the paper. Options include:

- 1 Sided Print (default)
Prints only on one side of the paper.
- Flip on Long Edge
Two-sided printing aligned to the long edge of the paper (available only if **Tray 5 (Bypass)** is *not* selected for **Paper Source** on the "Paper/Output" tab).
- Flip on Short Edge
Two-sided printing aligned to the short edge of the paper (available only if **Tray 5 (Bypass)** is *not* selected for **Paper Source** on the "Paper/Output" tab).

Copies (default: 1)

Specify the number of copies to print. The valid range is 1-999 copies.

Custom Paper Size

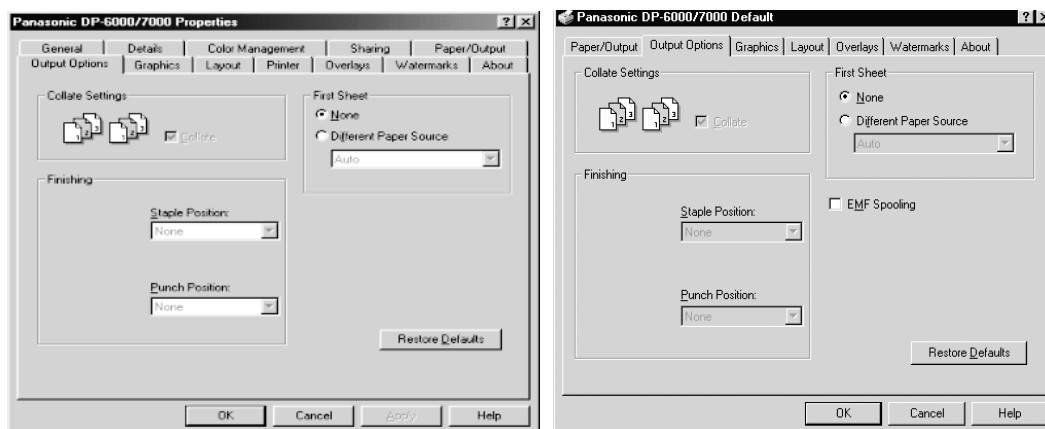
Click the Custom Paper Size button to display the Custom Paper Size dialog for defining your own paper size.

Restore Defaults

Restore the settings in the dialog box to their default values.

4.3 Configuring the Printer Drivers

●●● Output Options



For Windows 95/98/Me

For Windows NT 4.0/Windows 2000

The "Output Options" tab has some advanced features for sending a print job. There is an image display of the Collate Settings which represents the current selection. Clicking this image will toggle both the check box setting and the image display between the collate and uncollate selections. Image displays of the Staple Position and Punch Position will be shown only when they are selected. Each click on these images will select the next item in their combo box and update the image displays as well.

Collate Settings

Specify how you want your document to be arranged.

Collate (default: on)

Click on the check box to collate or uncollate your documents. Enabled if more than one copy is selected for **Copies** on the "Paper/Output" tab.

Finishing

Specify where to staple and punch your printed document. The Staple Position and Punch Position drop-down lists are enabled only if all of the following conditions are met:

- (1) **Finisher** is selected for **Paper Output Options** on the "Printer" tab;
- (2) **Finisher Tray 2** is selected for **Output Destination** on the "Paper/Output" tab;
- (3) **Collate** is selected for **Collate Settings**; &
- (4) **Booklet Creation** is not selected for **Layout Mode** on the "Layout" tab.

Staple Position

Specify the staple positions around the paper edge which can be used for stapling:

- None (default)
Staple function off.
- Top Left Corner
Apply one staple at the top-left corner of paper.
- Top Double
Apply two staples at the top edge of paper.

- Top Right Corner
Apply one staple at the top-right corner of paper.
- Left Double
Apply two staples at the left edge of paper.
- Right Double
Apply two staples at the right edge of paper.
- Bottom Left Corner
Apply one staple at the bottom-left corner of paper.
- Bottom Double
Apply two staples at the bottom edge of paper.
- Bottom Right Corner
Apply one staple at the bottom-right corner of paper.

Note  The Finisher can staple up to a maximum of 50 sheets.

The paper sizes and positions that can be stapled are as follows:

Size	Document Image Orientation	Top Double Bottom Double	Left Double Right Double	Top Left Corner Top Right Corner Bottom Left Corner Bottom Right Corner
A3	Portrait	○	×	○
	Landscape	×	○	
A4	Portrait	○	○	○
	Landscape	○	○	
A5	Portrait	×	○	○
	Landscape	○	×	
B4	Portrait	○	×	○
	Landscape	×	○	
B5	Portrait	○	○	○
	Landscape	○	○	
8.5 × 11"	Portrait	○	○	○
	Landscape	○	○	
8.5 × 13"	Portrait	○	×	○
	Landscape	×	○	
8.5 × 14"	Portrait	○	×	○
	Landscape	×	○	
11 × 17"	Portrait	○	×	○
	Landscape	×	○	

Note 

×: Not supported; ○: supported

LOOK 

The staple positions available for selection may differ according to the document image orientation specified on the printer driver screen. Specify the document image orientation first before selecting the staple position.

4.3 Configuring the Printer Drivers

Punch Position

Specify the punch position around the paper edge which can be used for punching:

- None (default)
- Top
- Bottom
- Left
- Right

The following paper size/orientation can be used for punching.

(long edge) or (short edge) is the edge of the paper which can be punched.

The punch positions available for selection may differ according to the document image orientation specified on the printer driver screen. Specify the document image orientation first before selecting the punch position.

- B5 portrait (long edge)
- A4 portrait (long edge)
- B4 (short edge)
- A3 (short edge)
- 8.5 × 11" portrait (long edge)
- 11 × 17" (short edge)



- *For A4, A5, B5, 8.5 × 11", the positions that can be stapled and punched may differ according to the paper orientation. When specifying the staple/punch positions, take note of the orientation of the paper loaded in the tray.*
- *You cannot specify stapling or punching for documents that are of different paper sizes.*
- *You cannot specify stapling or punching for paper loaded in the bypass tray.*

First Sheet

Enables you to select for the first sheet of your document, a paper source different from the rest of the output sheets as selected in **Paper Source** on the "Paper/Output" tab. Note that the paper size used for this different paper source must be the same as the rest of the document. Options include:

None

The first sheet will use the same paper source as the rest.

Different Paper Source

Specify the paper source for the first sheet:

- Auto (default)
- Tray 1
- Tray 2
- Tray 3
- Tray 4
- Tray 5 (Bypass)
- Tray 6 (High Capacity)

EMF Spooling (for Windows NT 4.0/Windows 2000) (default: off)

Specifies the format in which to store printing information on your disk while a job is waiting to be printed. Turning this control on will enable the EMF disk file format.

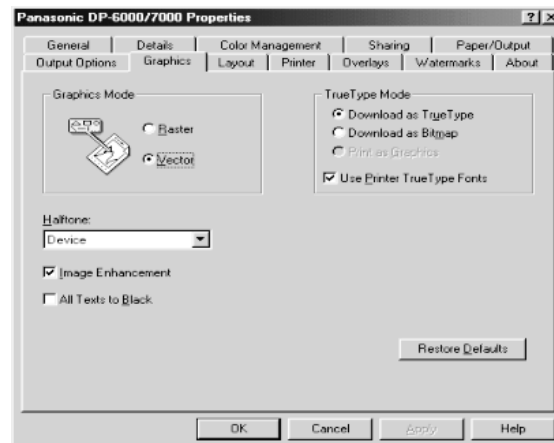
Otherwise, RAW format will be used. Enabled if **Vector** is selected for **Graphics Mode** on the "Graphics" tab.

Restore Defaults

Restore the settings in the dialog box to their default values.

4.3 Configuring the Printer Drivers

●●● Graphics



The "Graphics" tab has option settings that affect the quality of a printed output. Notice that there is a visual representation of the selected graphics mode. Clicking it will toggle both the radio button setting and the image display between the Raster and Vector selections.

Graphics Mode

Enables you to optimise graphic printing, increasing speed and quality. Options include:

- Raster
All graphics are sent to the printer as bitmap raster images (i.e. images composed of individual dots). Under this option, the printed output may appear to be a closer match to the screen image than the other mode, but printing is slower.
- Vector (default)
This mode enables images to be printed faster but not all graphic images can be printed under this mode. If the printed graphic images do not appear the same way as they did on your screen, select **Raster** and reprint your graphic.

Halftone

Halftone refers to a type of pattern that is applied to the printed image. By using a combination of black dots, these patterns produce a grey appearance on the printed image. This Halftone feature is designed to process images (e.g. photographs) but not computer generated art (e.g. clip art). The appearance of the printed image will be differed by the Halftone settings. Note the different settings available for the different drivers.

For Windows 95/98/Me:

- Device (default)
Image objects will be rendered by default halftoning attributes.
- Line Art
Provides solid lines and sharp contrasts between shaded areas and is used for images with intricate lines.

- Fine
Provides smooth shades of grey.
- Coarse
Provides rough greyscale with high contrasts for images that will be scanned or copied.
- Diffusion
Creates the appearance of greyscales by randomly placing individual dots of ink. Best for photographic images but requires more processing time. Available only if **Raster** is selected for **Graphics Mode**.

For Windows NT 4.0/Windows 2000:

- Device (default)
Image objects will be rendered by default halftoning attributes.
Available only if **Vector** is selected for **Graphics Mode**.
- System
Image objects will be rendered by the system halftoning. Click **Halftone Color Adjustment** for system halftone color adjustment.

Image Enhancement (default: on)

Click to enhance the quality of the output image.

All Texts to Black (default: off)

Click to print all colored text in black except white. If this is not selected, colors will be printed in varying degrees of grey. Disabled if **Print as Graphics** is selected for **TrueType Mode**.

TrueType Mode

The driver is capable of downloading the Windows TrueType fonts in three different ways:

- Download as TrueType (default)
Prints text by downloading the complete character set of TrueType fonts in an outline form that the printer can deal with directly. Downloaded fonts are vector-based, scalable typefaces.
- Download as Bitmap
Prints text by downloading each TrueType character as an individual bitmap font. Downloaded fonts are raster-based, non-scalable typefaces.
- Print as Graphics
Prints text as graphic images. The printed output may appear to be a closer match to the screen image than the other options, though it may print slower.
Enabled only if the **Raster** is selected for **Graphics Mode**.

Use Printer TrueType Fonts (default: on)

When this check box is selected, the printer prints by using the printer-resident fonts instead of by downloading fonts to the printer, unless the required fonts are not present in the printer. This will speed up the printing process and give your printer its best performance. Disabled if **Print as Graphics** is selected for **TrueType Mode**.

4.3 Configuring the Printer Drivers

Halftone Color Adjustment (for Windows NT 4.0/Windows 2000)

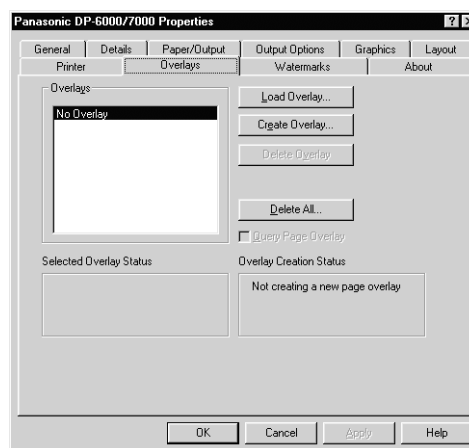
Click to display the "Halftone Color Adjustment" dialog box for setting the color adjustment values that are used to adjust the color of bitmap images for printing. Color adjustments affect certain attributes of the image, such as contrast and brightness. Enabled only if **System** is selected for **Halftone**.

Note The "Negative" check box in the "Halftone Color Adjustment" dialog box specifies whether or not the colors of bitmap images are inverted. Inverting colors produces a negative image of the bitmap.

Restore Defaults

Restore the settings in the dialog box to their default values.

Overlays



The "Overlays" tab allows you to create, use and delete page overlays for your printer. A Page Overlay is a group of PCL commands and/or data created, downloaded and stored in the printer by you. Once stored in the printer, a page overlay can be invoked upon request and eliminates the need to download the same information over again, thus saving transmission time.

Load Overlay

When you want to use a file from an external source as an overlay, click this button to inform the overlay manager of the file and its location.

Note If you source an external file from a floppy disk and then remove the disk from the disk drive, the file will no longer be available as an overlay. If you intend to use this file regularly, it is recommended that you copy the file to your system local disk before using this button.

Create Overlay

Creates and stores a Page Overlay from a file containing the overlay that you want.

See "Appendix C Printing Data Combined Using Overlays" for details on creating and printing with an overlay.

Delete Overlay

To delete an overlay, select it in the "Overlay" list box, and click **Delete Overlay**. Click **Yes** to confirm deletion or **No** to abort the action.

Delete All

Deletes all overlays from any and all of the destinations.

Query Page Overlay

When this check box is selected, a message box requesting for confirmation will appear whenever a page overlay command is sent to the printer. If this is not selected, the selected page overlay file will be sent directly to the printer.



This option is not active if No Overlay is selected or if the currently selected overlay has been permanently downloaded to the printer.

Selected Overlay status

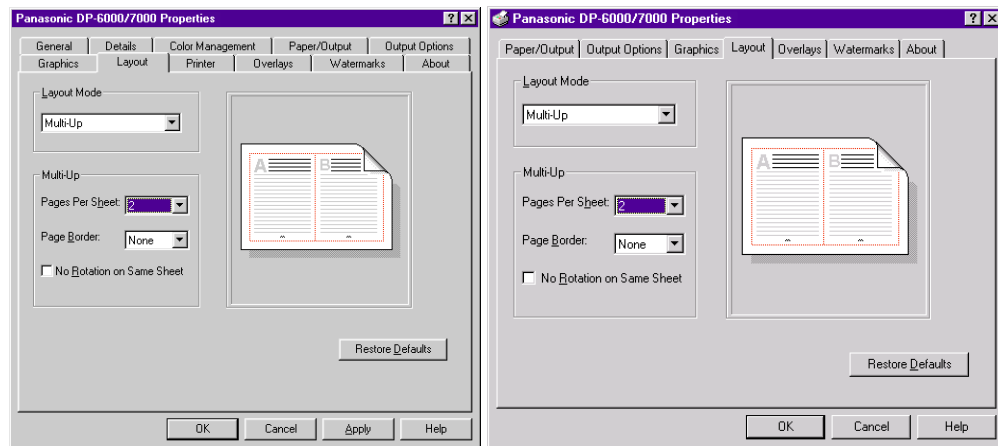
Displays information on the selected overlay.

Overlay Creation status

Displays information regarding the creation of overlays.

4.3 Configuring the Printer Drivers

●●● Layout



For Windows 95/98/Me

For Windows NT 4.0/Windows 2000

The Layout property provides six job finishing features for you to modify the printed layout of a document. Notice that an image is displayed for each type of layout mode selected and which also indicates the current page orientation.

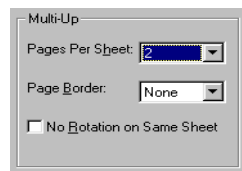
Layout Mode

Provides a list of the job finishing options:

- Multi-Up (default)
- Booklet Creation
- Fit To Output Size
- Zoom
- Logical On Physical
- Poster

Selecting each of the features will display one of the following corresponding options:

(1) Multi-Up (available when Multi-Up is selected for Layout Mode)



The Multi-Up function allows more than one document page to be printed on the same physical page.

Pages Per Sheet (default: 1)

Lists the possible pages per sheet for the Multi-Up printing function: 1, 2, 4, 6, 9, 16.

Page Border

Specify the options of page border to be printed around each document page:

- None (default)
No page border is drawn.
- Grid
A rectangle is drawn to divide each document page.

- Shadow

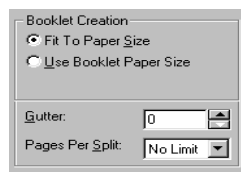
A rectangle with drop shadow effect is drawn around each document page.

Enabled when more than 1 is selected for **Pages Per Sheet**.

No Rotation on Same Sheet (default: off)

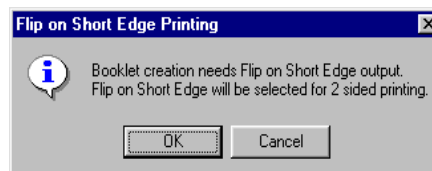
Specify how Multi-Up document pages of different orientation are to be handled on the same physical page by comparing other document pages with the first document page. When this is not selected, document pages with different orientation from the first document page will be rotated to match its orientation, with minimum size reduction. When this is selected, document pages with different orientation from the first document page will not be rotated but will be scaled down in order to fit into the same physical page. Enabled when more than 1 is selected for **Pages Per Sheet**.

(2) **Booklet Creation** (available when **Booklet Creation** is selected for **Layout Mode**)



This function allows the document to be printed as a booklet. It ensures that the output sheets when folded and stacked will have the correct page order of a booklet.

When this feature is chosen in **Layout Mode**, the following dialog box will be displayed.



Take note of the message and click **OK** to proceed.

Booklet Creation

There are two ways to create a booklet:

- Fit To Paper Size (default)

Each document page is scaled down and printed to fit the booklet output using a defined paper size.

- Use Booklet Paper Size

Special booklet size is used to create the booklet without scaling the document pages. When this is selected, the following sizes are available for selection:

- Booklet on Letter (default)
- Booklet on Ledger
- Booklet on A4
- Booklet on A3

Gutter (default: 0)

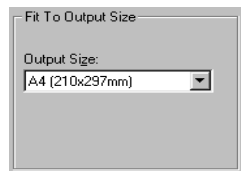
Specify the gap of between 0-150 dots to be created between the two pages on each sheet of paper.

Pages Per Split (default: No Limit)

Specify the number of pages to be printed as a booklet (4, 8, 12, 16, or No Limit).

4.3 Configuring the Printer Drivers

(3) **Fit To Output Size** (available when **Fit To Output Size** is selected for **Layout Mode**)

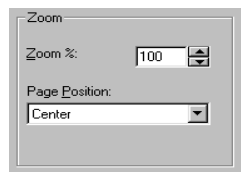


This function allows document to be printed on a specified paper size that is different from the original page size of the document by scaling the document page to fit onto the specified page size.

Fit to Output Size (default: A4 (210 × 297 mm))

Lists the possible paper sizes that can be used. The options available are similar to the settings of **Paper Size** on the "Paper/Output" tab. This function can output to all paper sizes.

(4) **Zoom** (available when **Zoom** is selected for **Layout Mode**)



This function allows enlargement or reduction of each document page to be printed.

Zoom % (default: 100%)

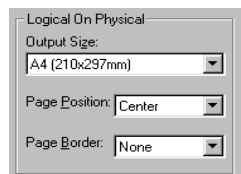
Define a zoom % of between 50 to 400 % for enlargement (>100 %) or reduction (<100 %) of your page.

Page Position

Specify the position where the document page is to be printed on the output:

- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

(5) **Logical On Physical** (available when **Logical On Physical** is selected for **Layout Mode**)



This function allows you to print on a paper size that is different from the page size designated for your document, without scaling the page image. You may also specify a page border and/or a position for printing the document page.

Output Size (default: A4 (210 × 297 mm))

Lists the possible paper sizes that can be used. The options available are similar to the settings of **Paper Size** on the "Paper/Output" tab.

Page Position

Specify the position where the document page is to be printed on the output:

- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

Page Border

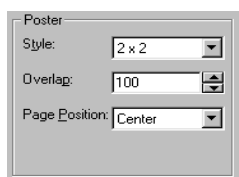
Specify the options of page border to be printed around each document page:

- None (default)

No page border is drawn.

- Shadow

A rectangle with drop shadow effect is drawn around each document page.

(6) Poster (available when **Poster** is selected for **Layout Mode**)

This function allows you to enlarge proportionally and print the image of each document across multiple physical pages.

Style

Specify the style for outputting the document image (i.e. the number of times of its page size to enlarge):

- 2 x 2
- 3 x 3
- 4 x 4
- Custom

If **Custom** is selected, a zoom % (from 150 to 400 %) is available for you to define the custom poster style.

Overlap

It allows an overlapped width between 0-150 dots to be created between each enlarged image across different physical pages.

Page Position

Specify the position where the document page is to be printed on the output:

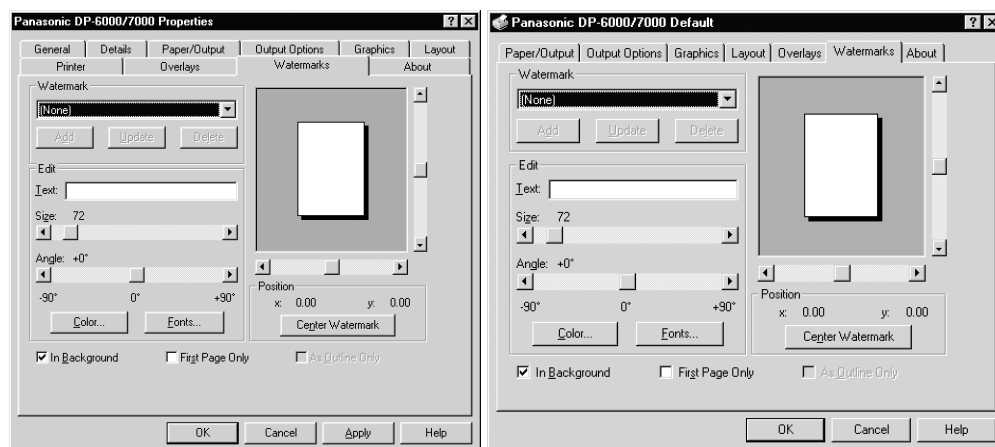
- Top Left
- Top Right
- Center (default)
- Bottom Left
- Bottom Right

Restore Defaults

Restore the settings in the dialog box to their default values.

4.3 Configuring the Printer Drivers

Watermarks



For Windows 95/98/Me

For Windows NT 4.0/Windows 2000

This property allows you to create, edit and delete watermarks, which are light images printed in the background on a page.

The procedure to create a watermark is as follows:

- 1 Specify the text for the watermark in **Text** (maximum 100 characters).
- 2 Select **Fonts** to display the "Font" dialog box and specify the font, font style and size. Font style includes regular, italic, bold and bold italic; size ranges from 6-900.
- 3 Select **Color** to display the "Color" dialog box and specify/create the required color.
- 4 Specify the position and angle of the text by adjusting the Angle scrollbar (-90 to +90 degrees) and the scrollbar just below the preview window* which moves the x and y position values. These position values are in the 1/100ths (0.01) of an inch and are offsets from the page center. To reset the position to the paper origin, press **Center Watermark**.
- 5 Click **Add** to add the new watermark to the "Watermark" list.

The procedure to edit a watermark is as follows:

- 1 Select an existing watermark from the "Watermark" drop-down list.
- 2 Make changes to it as required.
- 3 Click **Update** to replace the previous version or **Add** to save a modified version of the watermark.

The procedure to delete a watermark is as follows:

- 1 Select an existing watermark from the "Watermark" list.
- 2 Click **Delete** to remove the watermark from the list.

To print a watermark, the options available include:

In Background

Selecting this prints the watermark underneath the primary texts and graphics in the document. Otherwise the watermark will be printed on top of all images in the document. Disabled if **As Outline Only** is selected.

First Page Only

Selecting this prints watermark on the first page of the document only. Otherwise the watermark will be printed on all pages.

As Outline Only

Selecting this prints the text outline of the watermark which is always printed on top of all document images. Disabled if **In Background** is selected.

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A stylized, abstract illustration in white lines on a gray background. It depicts a person sitting at a desk, possibly using a printer. The person is represented by simple lines for the head, torso, and limbs. The desk and printer area are also indicated by thick, rounded white lines. There are some small circles and wavy lines scattered around, suggesting a workspace or a process.

5

Setup for the Direct Print Utility

5.1	Using the Direct Print Utility	76
5.2	Setup of the Printer	78
5.3	Installing the Direct Print Utility	81
5.4	Status Indication	88
5.5	Uninstalling	90

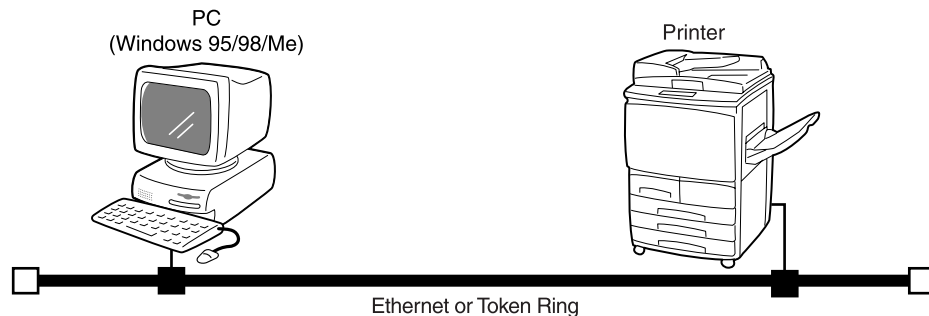


Using the Direct Print Utility

This section explains the operations environment when using the Direct Print Utility as well as the flow of setup.

5.1.1 System Configuration

To use the Direct Print Utility, install the software on Windows 95, Windows 98, or Windows Me, setup the port and connect the printer to an Ethernet or Token Ring network.



5.1.2 Target Computers (Windows 95/98/Me)



The target computers must meet all the following requirements:

- Installed with the English version of Windows 95/98/Me
- IBM PC-AT or compatible computer
- Equipped with Intel CPU (x86 compatible)
- Using TCP/IP protocol in a network environment
- Installed with a printer driver compatible with the printer
- Computer name setup by ASCII characters



- *Use only single-byte uppercase/lowercase letters, numbers, hyphen (-) and underscore (_) for ASCII character.*
- *If non-ASCII characters are used in a computer name, the printer may not print normally. If non-ASCII characters are used, change the computer name in Control Panel > Network > Identification.*

5.1.3 Flow of Setup

- ① Setup for the printer
Set the LPD port to Enable (factory setting: Enable) and define the setting for the protocol to be used by the transport layer.
 "... "5.2 Setting Up the Printer"
- ② Installing the Direct Print Utility
Install the Direct Print Utility on a PC with Windows 95/98/Me OS only.
 "... "5.3 Installing the Direct Print Utility"
- ③ Printing
Print from the application that is being used (e.g. Word, Excel). As the printing method differs according to application, refer to the respective manual for information on how to print. Check the selected printer in the application before printing.



Setup of the Printer

To use the Direct Print Utility, it is necessary to set the LPD port to Enable (factory setting: Enable). The protocol to be used by the transport layer for the Windows 95/98/Me OS for the Direct Print Utility is TCP/IP (factory setting: **Off**).



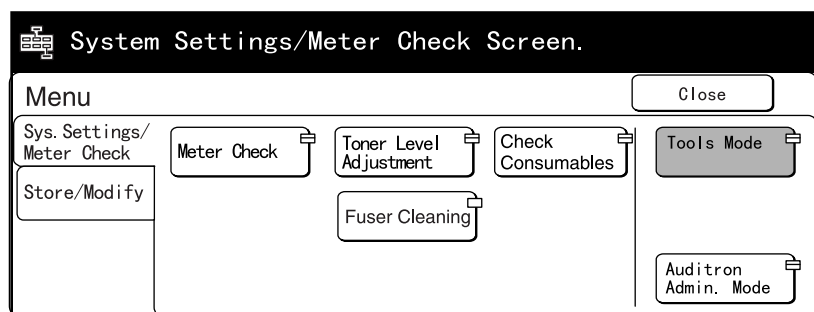
When setting the port to Enable leads to insufficient memory, a message about the insufficient memory may be displayed on the control panel and the port status may be set to Disable automatically. If this happens, set the ports which are not in use to Disable and change the memory size.

5.2.1 When the LPD Port is Disabled

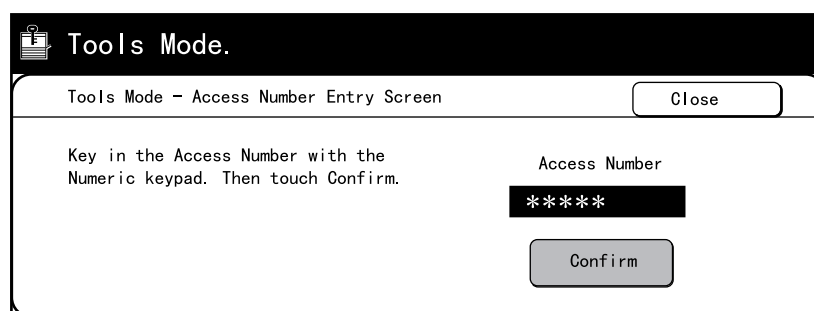
Follow the procedure below to set the LPD port to Enable and to define the setting of the protocol to be used by the transport layer.

Procedure

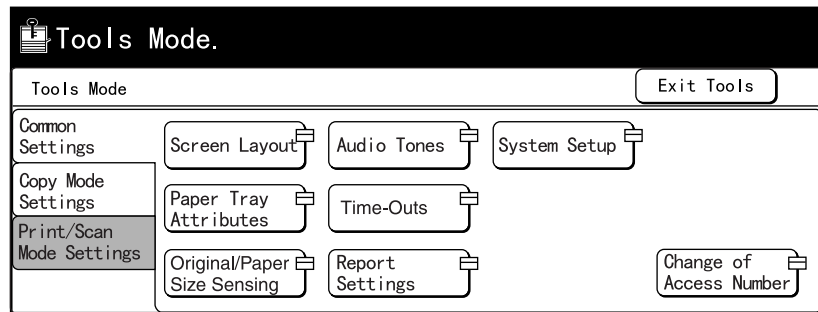
- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.



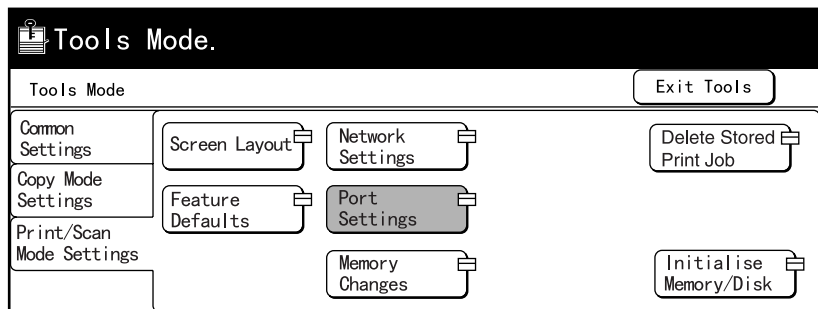
- 2 Enter the access number of the system administrator and touch **Confirm**. The factory setting of the access number is "11111".



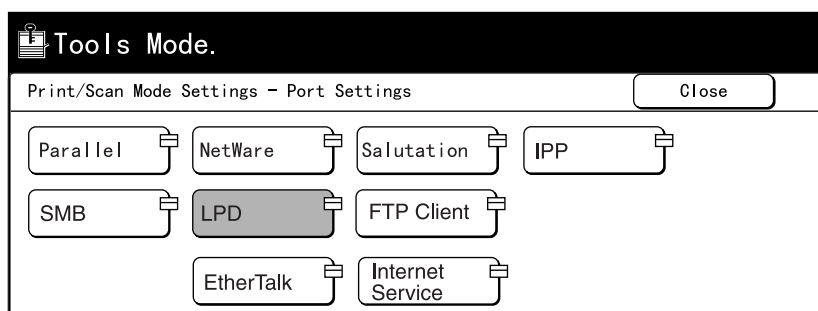
③ Select **Print/Scan Mode Settings**.



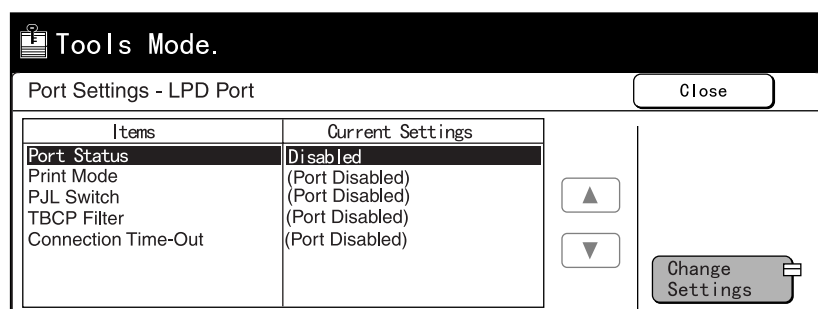
④ Select **Port Settings**.



⑤ Select **LPD**.



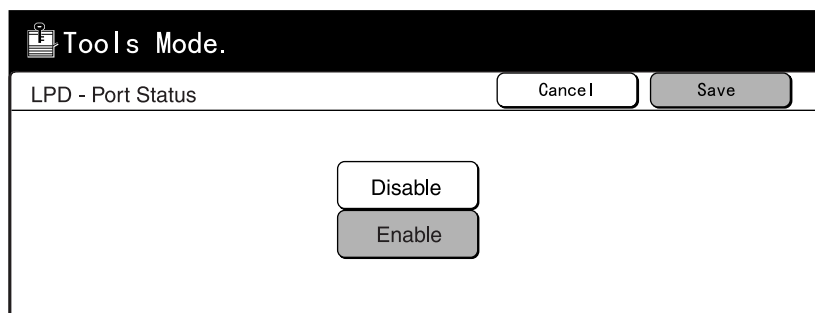
⑥ Select **Port Status** and then touch **Change Settings**.



Note Although the default setting of Port Status for LPD Port is Enable, we display the Disable setting here for illustrating this procedure of activating the port.

5.2 Setup of the Printer

- 7 Select **Enable**.



- 8 Select **Save**.
Restart the machine for the changes of setting to take place.

5.2.2 Other Settings

If necessary, define the setting of the following items on the printer. However, there is no need to change the factory setting of these items for normal use.

- Print Mode (factory setting: PCL*)
- P/L Switch (factory setting: On)
- LPD Spool (factory setting: Hard Disk spool)



Note * If the optional PostScript software kit is installed, factory setting will be Auto.



See "Chapter 13 Configuring by the Tools Mode Screen" for details on the printer setting items.

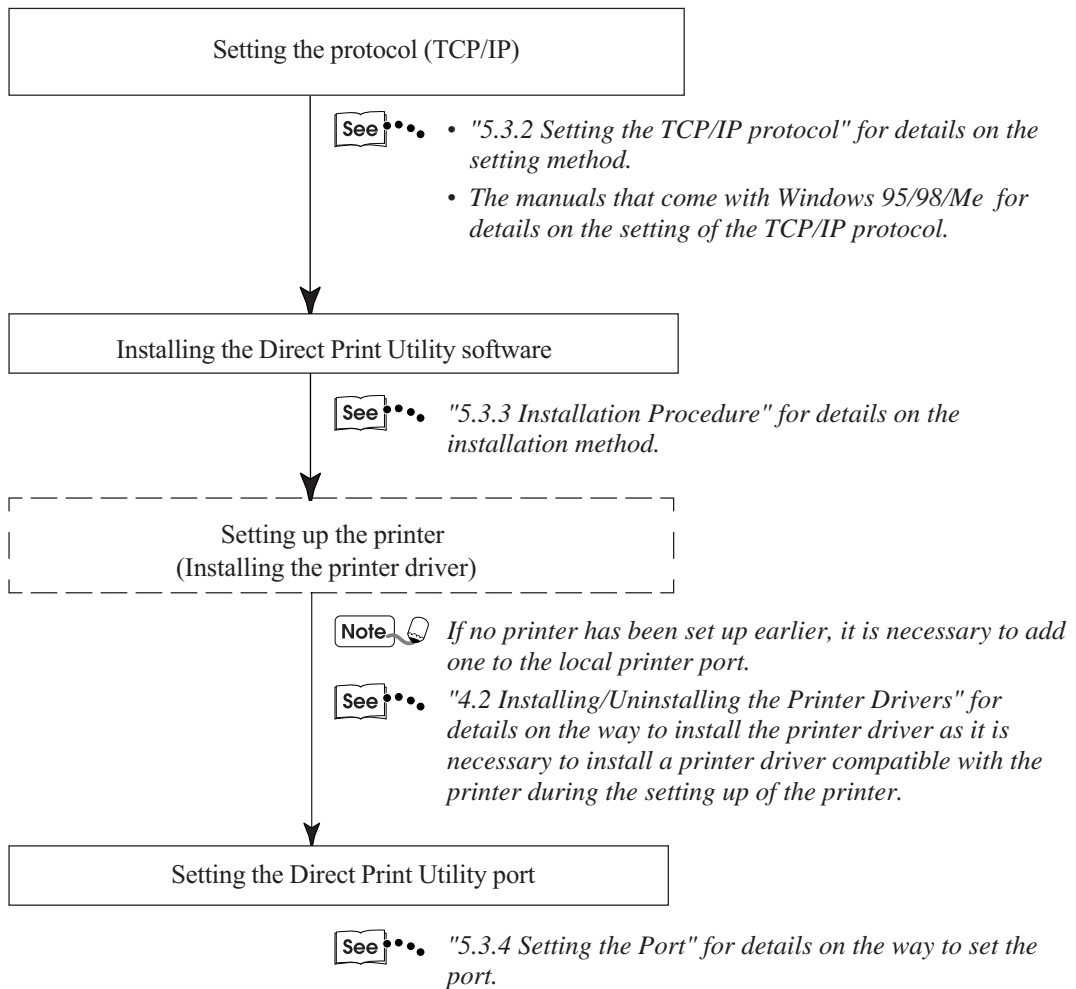


Installing the Direct Print Utility

This section describes the installation method for Windows 95, Windows 98 or Windows Me.

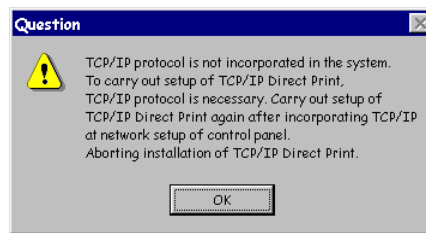
5.3.1 Overview

To use Direct Print Utility, it is necessary to set the PC as follows:




5.3.2 Setting the TCP/IP Protocol

The protocol needed to setup the Direct Print Utility port is the TCP/IP protocol. If you try to install the Direct Print Utility without installing the necessary protocol first, the following corresponding dialog box will be displayed:



Follow the procedure below to install the TCP/IP protocol:

 *The manuals that come with Windows 95/98/Me for details on the way to install the TCP/IP protocol.*

Procedure

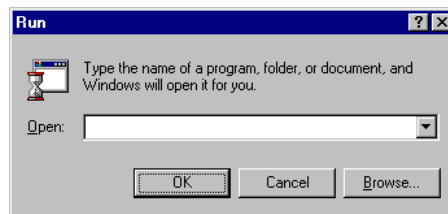
- 1** Start Windows 95, Windows 98 or Windows Me.
Click **Start** and select **Settings**, followed by **Control Panel**. Double-click the "Network" icon to display its dialog box.
- 2** Click **Add** on the "Configuration" tab dialog.
The "Select Network Component Type" dialog box appears.
- 3** Click **Protocol** in the "Select Network Component Type" dialog box. Then, click **Add**.
The "Select Network Protocol" dialog box appears.
- 4** Click **Microsoft** in the "Manufacturers" box in the "Select Network Protocol" dialog box.
A list of protocols appears in the "Network Protocols" box.
- 5** Click **TCP/IP**.
Then click **OK**.
- 6** Click **OK** on the "Network" dialog box.
- 7** Restart the system.

5.3.3 Installation Procedure

The procedure to install the Direct Print Utility is as follows:

Procedure

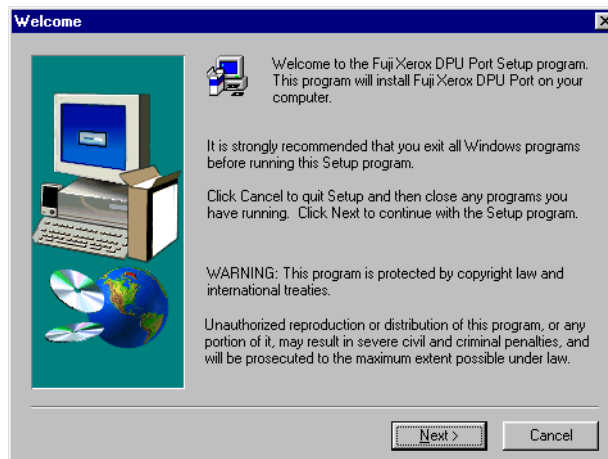
- ❶ Start Windows 95, Windows 98 or Windows Me.
Click **Start** and select **Run** to display its dialog box.



- ❷ Insert in the "PCL Driver/Network Utility (Windows)" CD-ROM and enter "E:\Utilities\Win9x_Me\Dp\Setup.exe" on the Run dialog box. Then click **OK**. The "Welcome" dialog box appears.

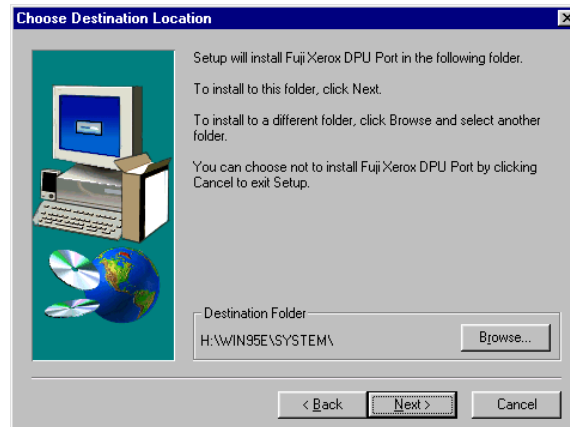


In this example, we assume that drive E is the CD-ROM drive. Enter the appropriate letter for your CD-ROM drive.



5.3 Installing the Direct Print Utility

- ③ Read the welcome message carefully and then click **Next** to continue with the installation.



- ④ If you do not need to change the destination location, click **Next** to continue. When the installation is completed, a dialog box like the one below appears.



- ⑤ Click on the radio button of "Yes, I want to restart my computer now" and then click **Finish** to complete the installation



Restart the system for the installation to complete.

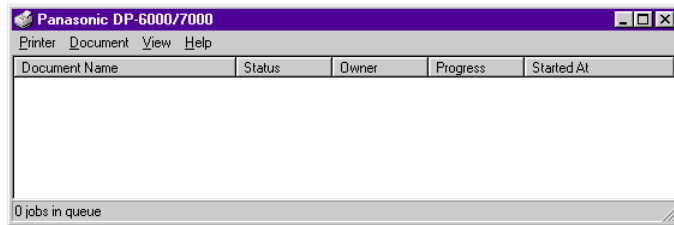
5.3.4 Setting the Port

To setup the Direct Print Utility port, a printer must be setup first. If no printer has been setup earlier, it is necessary to add one to the local printer port.

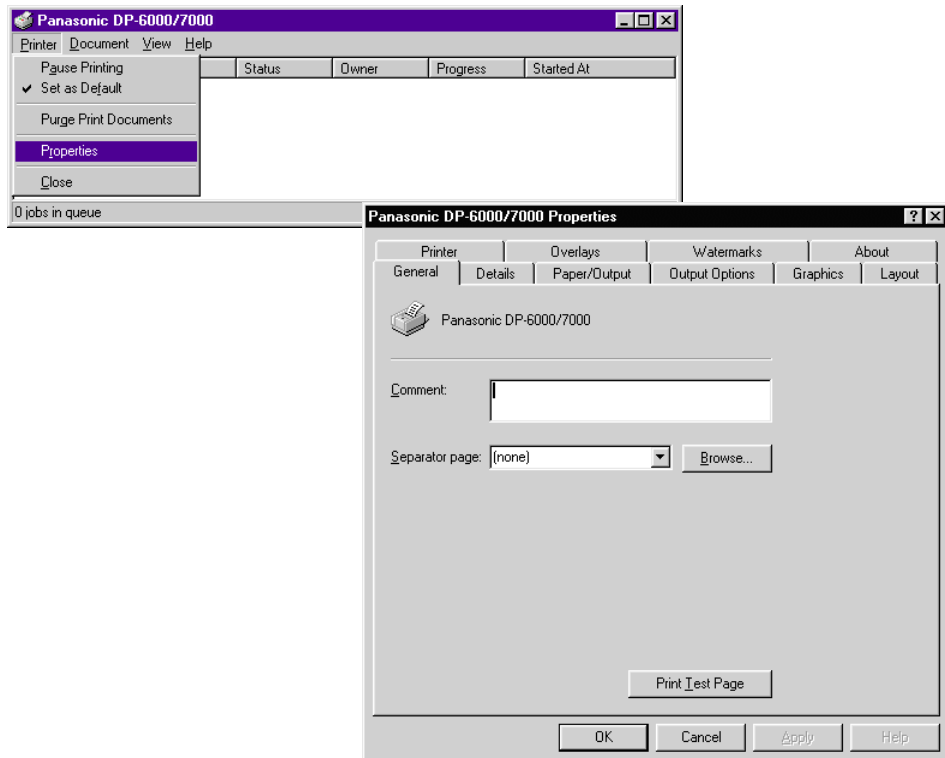
The installation procedure of the Direct Print Utility port is as follows:

Procedure

- ❶ Double-click the "My Computer" icon, followed by the "Printers" icon. Then double-click the icon of the printer for which you will change the port setting. The following window appears.

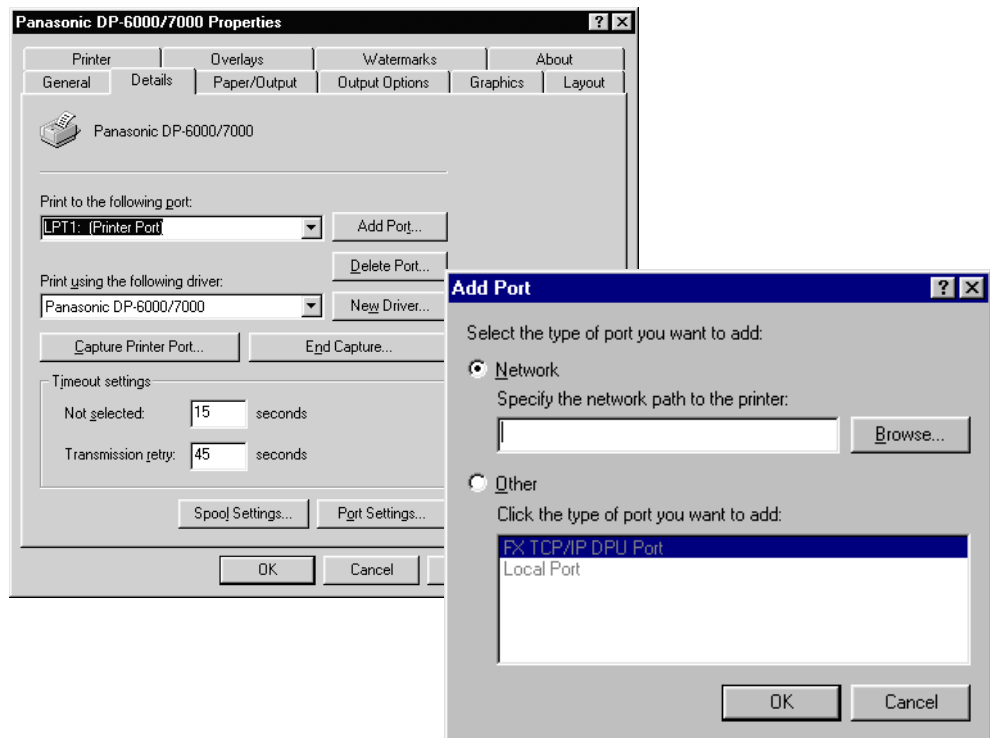


- ❷ From the "Printer" menu, click **Properties**. A dialog box for setting up the printer properties appears.

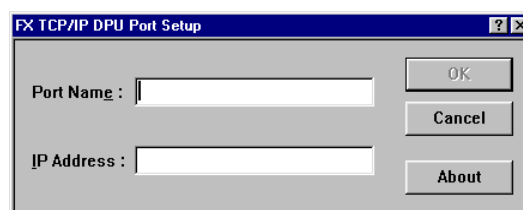


5.3 Installing the Direct Print Utility

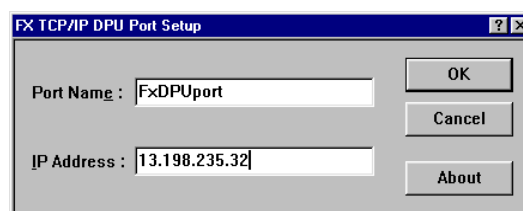
- ③ Click the "Details" tab.
- ④ Click **Add Port**.
The "Add Port" dialog box appears.



- ⑤ Click on the radio button for **Other**, followed by the port, **FX TCP/IP DPU Port** and then **OK**.
The "FX TCP/IP DPU Port Setup" dialog box appears.




Enter the port name and IP address by referring to the explanations below.
After all the settings are made, click **OK**.




Port Name

Enter a name for identifying the printer.

Note  Use only alphanumeric characters in the name. Do not use colon (:) or space.

IP Address

Enter the IP address allocated to the printer. When the DNS (Domain Name System) has been set, the printer host name can be entered instead.

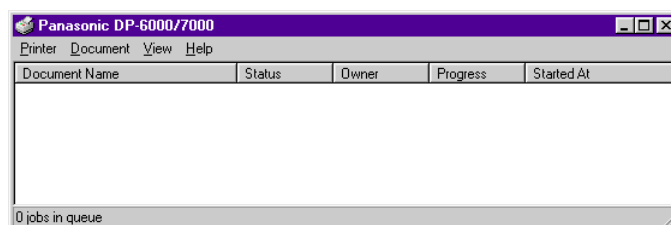
- Note** 
- IP address consists of four numbers separated by periods, with each value between 0-255 (xxx.xxx.xxx.xxx). If you do not know the IP address of your printer, either ask your system administrator or print out the printer settings list to check.
 - After entering the host name, click **OK** to verify if the host already exists in the network. If the host entered does not exist, setup cannot be done. You can stop the verification process of the host name by clicking **Cancel**.



Status Indication

After the printer has been set up, a new printer window will be displayed.

This section explains the various items and possible status displayed in the printer window.



[Document Name]

Name of the print file.

[Status]

Status of the printer.



Note

The various kinds of status listed below will be displayed only when a print job is sent from a PC with a port setup by Direct Print Utility. They will not be displayed if printing is sent from a shared computer via the PC setup with the port to the printer shared over a network.

Printing*

The printer is printing.

Sending

Print data is being sent to the printer.

Unable to print (Network Error)

The printer is unable to print.

Either the power is off or there is a problem in the network.



Note

When Network Error occurs, printing cannot be automatically re-executed.

Unable to print (Spool Error)

The printer is unable to print.

Either disk capacity is insufficient while spooling the file to be printed or an error arises in the spool file.



Note

When Spool Error occurs, printing cannot be automatically re-executed. After solving the problem, printing will be re-executed once the machine is activated.

Deleting

A document is being deleted.

Spooling*

The Print Manager is storing a print file to the memory (hard disk).

Pause

The process of printing or sending is stopped temporarily.



Note

To enable printing to restart, select Pause Printing from the "Document" menu of the "Printer" window.

[Owner]

Owner (user who sends print instructions) of the print file.

[Progress]

Total number of pages for a print file. During printing, the number of printed pages will be indicated here.

[Started At]

Time when printing started.

** : This will be displayed by the Windows 95/98/Me spooler, and not the Direct Print Utility.*



Uninstalling

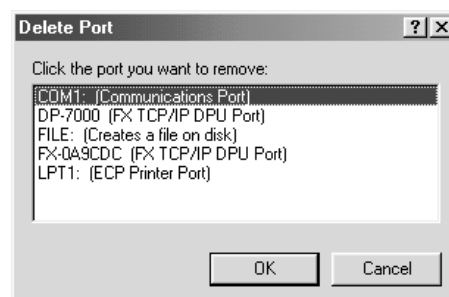
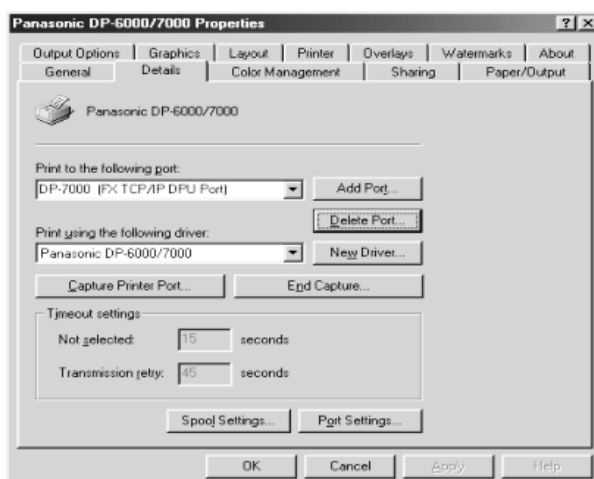
This section describes the procedure for deleting the Direct Print Utility from Windows 95, Windows 98, Windows Me.

To delete the Direct Print Utility from the system, carry out the following steps:

- ❶ Delete all the relevant printer ports: FX TCP/IP DPU Port.
- ❷ Delete all the related files: FX DPU Port.
- ❸ Restart the system.

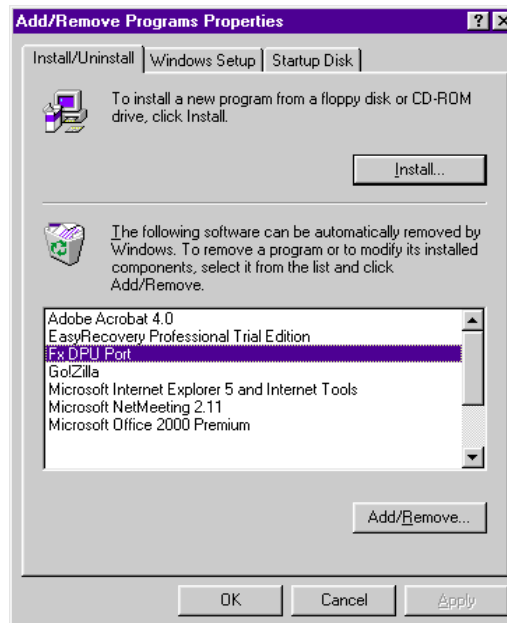
Procedure

- ❶-❶ Start Windows 95, Windows 98 or Windows Me.
Double-click the "My Computer" icon and the "Printers" icon.
- ❶-❷ Open the "Properties" dialog box of a printer that uses the relevant printer port (e.g. FX TCP/IP DPU Port). Click the "Details" tab and change the port setting from the printer port used to another one like LPT1.
Save the new setting by clicking "Apply".
- ❶-❸ Repeat Step ❶-❷ for all other printers that use this printer port.
- ❶-❹ In any of the "Properties" dialog box of the printers, click **Delete Port**.
A "Delete Port" dialog box appears. Select all the entries of the relevant printer port (e.g. FX TCP/IP DPU Port) and click **OK**. Make sure all the entries for the Direct Print Utility Port have been deleted before proceeding to the next step.



- ❷-❶ Click **Start** and select **Settings**, followed by **Control Panel**.
- ❷-❷ Double-click the "Add/Remove Programs" icon.
- ❷-❸ Under the "Install/Uninstall" tab, search and select the program to be deleted

(e.g. Fx DPU Port). Then, click **Add/Remove**.



- ③-① A "Confirm File Deletion" dialog box appears.
Click **Yes**.
- ③-② A "Remove Programs From Your Computer" dialog box appears.
Click **OK** when the uninstall is successfully completed.
- ③-③ A message recommending that you restart your system appears.
Click **OK** and restart the system.

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Setup for TCP/IP (Windows NT/ Windows 2000)

6.1	Setup for TCP/IP (Windows NT/Windows 2000).....	94
6.2	Setup for the Printer	95
6.3	Setup for Windows NT/Windows 2000	100



Setup for TCP/IP (Windows NT/Windows 2000)

This section describes the flow of setup for connecting the printer to a Windows NT/Windows 2000 server (workstation) using the TCP/IP protocol. To print in a TCP/IP environment, ensure that the Windows NT/Windows 2000 server (workstation), client, and printer have been assigned their respective IP addresses to connect to the network. It is necessary to specify at the Windows NT/Windows 2000 server (workstation), the IP address assigned to the printer using the port settings. A printer driver compatible with the printer must be used for the setup.

6.1.1 Flow of Setup

There are three possible network printer connections when printing from environments using Windows NT/Windows 2000:

- [1] From a Windows 95/98/Me client through a Windows NT/Windows 2000 server (workstation)
- [2] From a Windows NT/Windows 2000 server (workstation) directly
- [3] From a Windows NT/Windows 2000 client through a Windows NT/Windows 2000 server (workstation)

Unless otherwise indicated, the following flow is applicable to all three connections.

① Setup for the printer

Set the LPD port to Enable (factory setting: Enable), the protocol used by the transport layer to **TCP/IP** and enter the IP address.

"6.2 Setup for the Printer"

② Setup for Windows NT/Windows 2000

Install the printer for Windows NT/Windows 2000.

For [1] only: Next, install the Windows 95/98/Me driver as an alternate driver in the Windows NT/Windows 2000 server (workstation) if necessary.

"6.3 Setup for Windows NT/Windows 2000"

③ For [1] and [3] only: Setting up the client

For [1]:

- When the Windows NT/Windows 2000 server (workstation) is installed with an alternate Windows 95/98/Me driver, download the driver using the "Add Printer Wizard" dialog box. Select **Network printer server** as the printer connection and the printer installed for Windows NT/Windows 2000 in Step **②**.
- When the Windows NT/Windows 2000 server (workstation) is not installed with an alternate Windows 95/98/Me driver, install the driver using the "Setup.exe" program from the CD-ROM.

For [3]: Download the Windows NT/Windows 2000 driver using the "Add Printer Wizard" dialog box, select **Network printer server** as the printer connection and the printer installed for Windows NT/Windows 2000 in Step **②**. Otherwise, run the "Setup.exe" program from the CD-ROM to install the Windows NT/Windows 2000 driver.

"4.2 Installing/Uninstalling the Printer Drivers" for details on the installation of the printer driver.



Setup for the Printer

This section describes the procedure to set the LPD port to Enable (factory setting: Enable). The protocol used by the transport layer is TCP/IP.



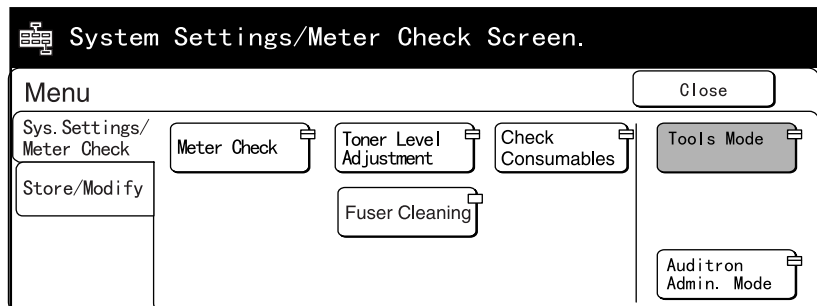
When setting the port to Enable leads to insufficient memory, a message about the insufficient memory may be displayed on the control panel and the port status may be set to Disable automatically. If this happens, set the ports which are not in use to Disable and change the memory size.

6.2.1 Setting the LPD Port to Enable

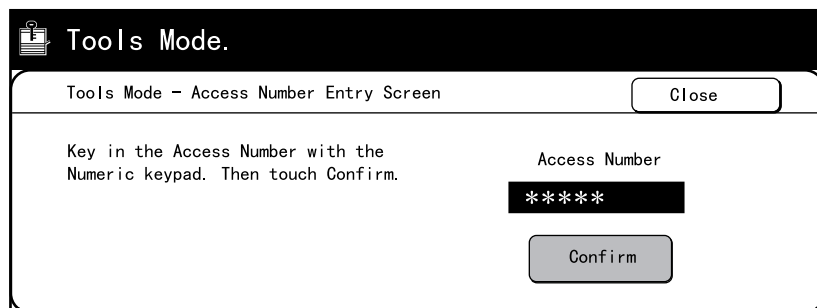
Follow the procedure below to set the LPD port to Enable. Once the LPD port is enabled, the protocol and the IP address can be set. If necessary, set the subnet mask and the gateway address.

Procedure

- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.

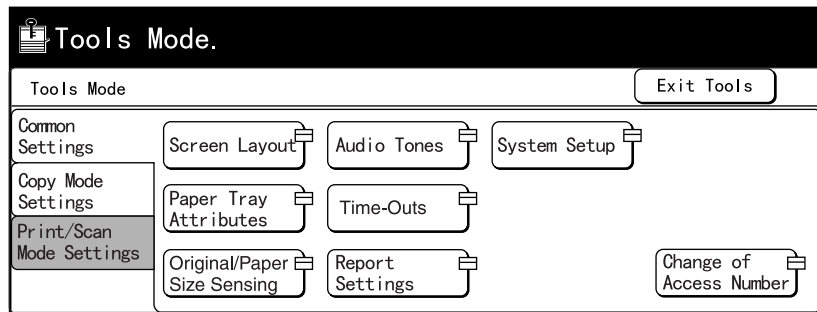


- 2 Enter the access number of the system administrator and touch **Confirm**. The factory setting of the access number is "11111".

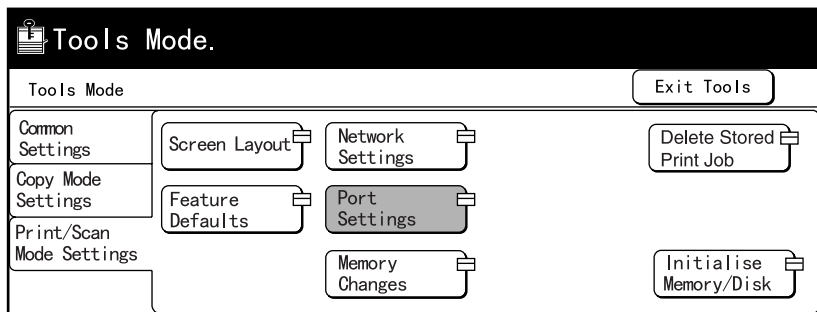


6.2 Setup for the Printer

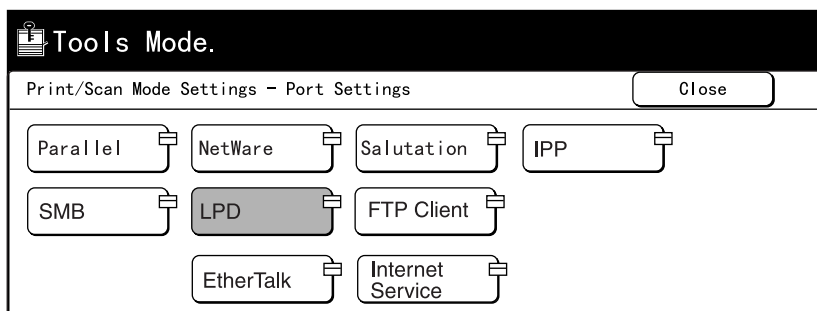
③ Select Print/Scan Mode Settings.



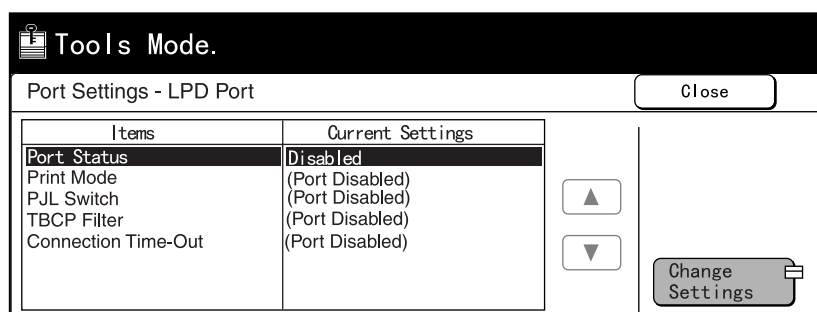
④ Select Port Settings.



⑤ Select LPD.



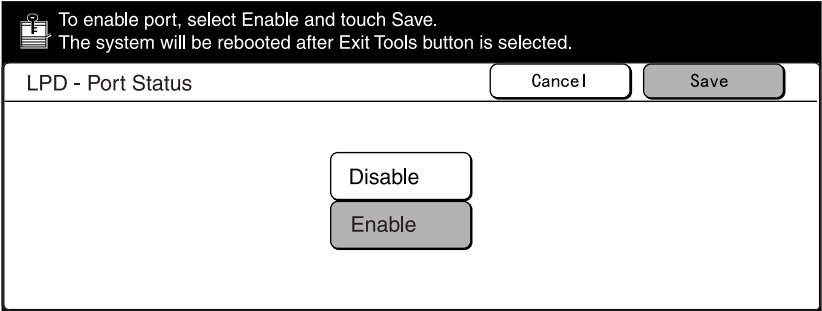
⑥ Select Port Status and then touch Change Settings.



Note

Although the default setting of Port Status for LPD Port is Enable, we display the Disable setting here for illustrating this procedure of activating the port.

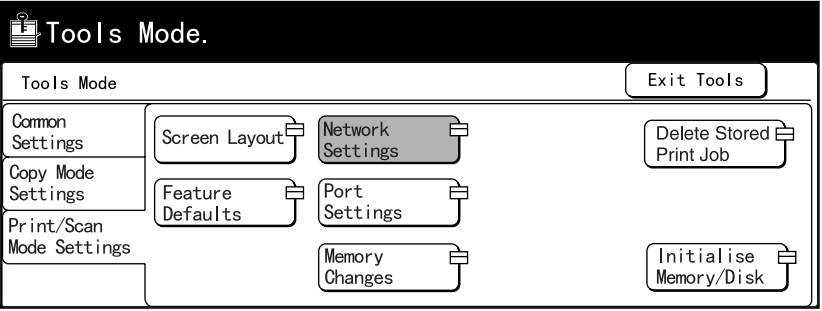
7 Select **Enable**.



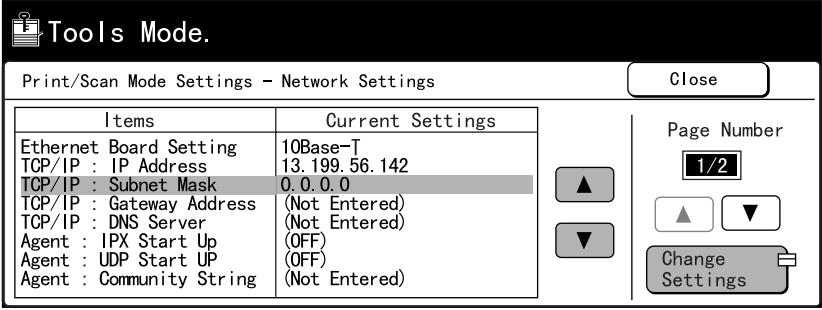
8 Select **Save**.
Restart the machine for the new setting to take place.

9 Repeat Steps 1 to 3.

10 Select **NetWork Settings**.

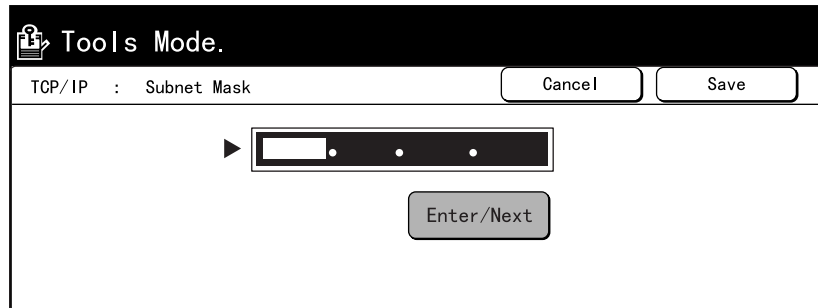


11 Select **TCP/IP: Subnet Mask** and then touch **Change Settings**.



6.2 Setup for the Printer

- 12** Enter the subnet mask using the numeric keypad.
To move to the next bit, touch **Enter/Next**.



The screenshot shows a screen titled "Tools Mode." with a printer icon. Below the title, it says "TCP/IP : Subnet Mask". There are two buttons at the top right: "Cancel" and "Save". In the center, there is a numeric keypad with a right arrow button to its left. Below the keypad is a button labeled "Enter/Next".

- 13** When the input is completed, select **Save**.
- 14** Repeat Steps **11** to **13** and input **TCP/IP: Gateway Address** in the same way.
- 15** Select **Save** until the screen of Step **10** appears.
- 16** Select **Exit Tools**.

6.2.2 Other Settings

If necessary, set the following settings on the printer. However, the factory setting of these items do not need to be changed for normal use.

 *"Chapter 13 Configuring by the Tools Mode Screen" for details on the printer setting items.*

- Print Mode (Factory setting: PCL*)
- PjL Switch (Factory setting: On)
- LPD Spool (Factory setting: Hard Disk spool)

 ** If the optional PostScript software kit is installed, factory setting will be Auto.*




Setup for Windows NT/ Windows 2000

This section describes the procedure for installing the printer driver on Windows NT 4.0/Windows 2000. A printer driver compatible with the printer must be used for the setup.


6.3.1 For Windows NT 4.0/Windows 2000

The PC must be installed with **TCP/IP protocol** (protocol) and **Microsoft TCP/IP Printing** (service). It is necessary to specify at the Windows NT/Windows 2000 server (workstation), the IP address assigned to the printer using the port settings.

 *Manuals that come with Windows NT 4.0/Windows 2000 for details on the installation method.*

Procedure

- 1 Install the printer driver for Windows NT 4.0/Windows 2000 by running the "Setup.exe" program. Click **Add Network Port** and select the network printer from **Network Neighborhood**.

 *"4.2.2 For a Network Printer" for details on the installation of the printer driver.*

- 2 For printing from a Windows 95/98/Me client through a Windows NT/Windows 2000 server (workstation):

To share the Windows 95/98/Me printer driver as an alternate driver in the Windows NT/Windows 2000 server (workstation), install the printer driver for Windows 95/98/Me into the Windows NT/Windows 2000 server (workstation) by Add Printer Wizard.

 *"4.2.1 For a Local Printer" for details on the installation of the printer driver.*



Setup for Windows Networking

7.1	Introduction	102
7.2	Setting NetBEUI in Printer	104
7.3	Setting TCP/IP in Printer	108
7.4	Changing Printer and Workgroup Name	111
7.5	Auto Driver Downloading	116



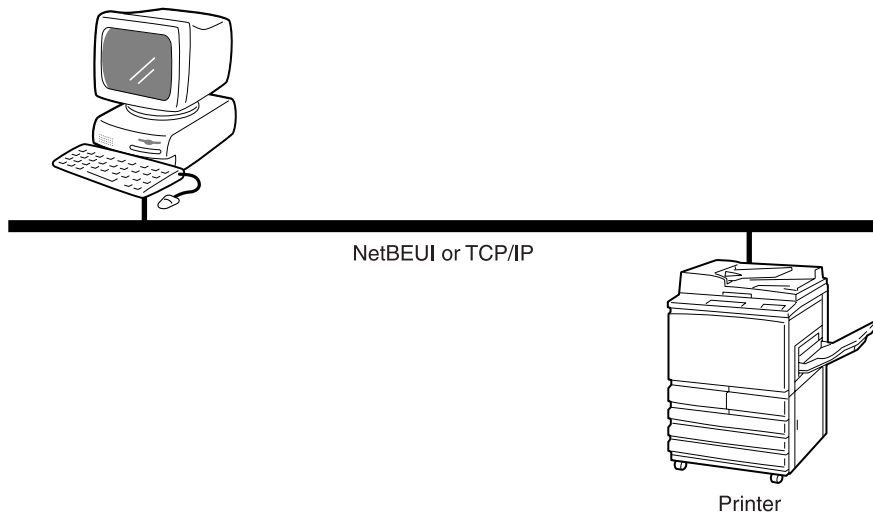
Introduction

Server Message Block (SMB) is a protocol for sharing files and/or printers through the network. It is supported by Windows OS. You can use NetBEUI or TCP/IP as the transport protocol for SMB. This section explains the operating environment and setup procedure for using SMB. Before setting up SMB, check the following information.

7.1.1 System Structure

SMB operates in an environment where the port is set and the printer connected to the network. It uses NetBEUI or TCP/IP as the transport protocol.

OS: Windows 95/98/Me, Windows
NT 4.0 or Windows 2000







- You can use either NetBEUI or TCP/IP, or even both as the transport protocol for SMB. When setting up the printer, refer to "7.2 Setting NetBEUI in Printer" for details on NetBEUI and to "7.3 Setting TCP/IP in Printer" for TCP/IP.
- You will need to setup the IP address in the computer and printer if you are using TCP/IP.

7.1.2 Setup Procedure

Follow the procedure below to setup the printer for the Windows Networking environment.

Procedure

- ❶ Setup the port status and transport protocol at the printer.
 - When using NetBEUI
From the touch panel display, select Enable for the port status of SMB (factory setting: Enable), followed by On for NetBEUI (factory setting: On).
 "7.2 Setting NetBEUI in Printer"
 - When using TCP/IP
From the touch panel display, select Enable for the port status of SMB (factory setting: Enable), followed by On for TCP/IP (factory setting: On).
 "7.3 Setting TCP/IP in Printer"
- ❷ Change the printer and workgroup name.
If necessary, change the SMB setting file, "config.txt" as well as the printer and workgroup name from the host computer.
 "7.4 Changing Printer and Workgroup Name"
- ❸ Install the printer driver to the host computer.
 "7.5 Auto Driver Downloading"



Setting NetBEUI in Printer

When using NetBEUI for SMB, you have to set the following items from the touch panel display.

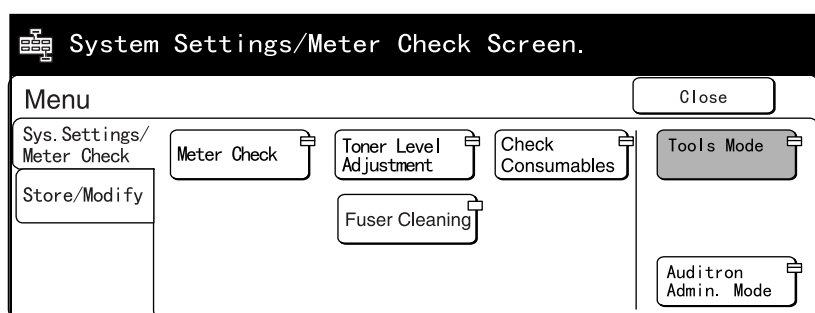
- select Enable for port status of SMB (factory setting: Enable)
- select On for NetBEUI as the transport protocol (factory setting: On)

7.2.1 Activating Port and Setting Protocol

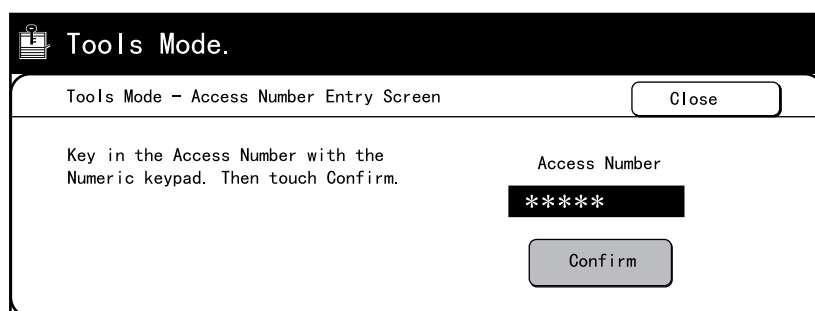
Follow the procedure below to activate the SMB port using the touch panel display.

Procedure

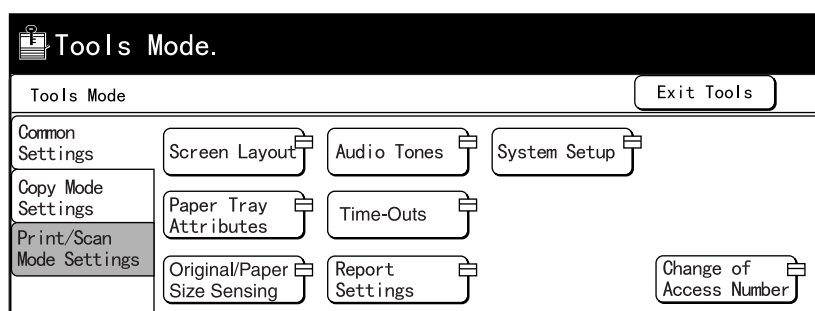
- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.



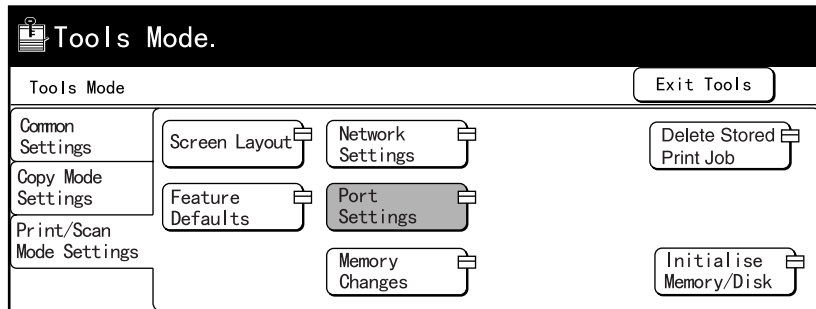
- 2 Enter the access number of the system administrator and touch **Confirm**. The factory setting of the access number is "11111".



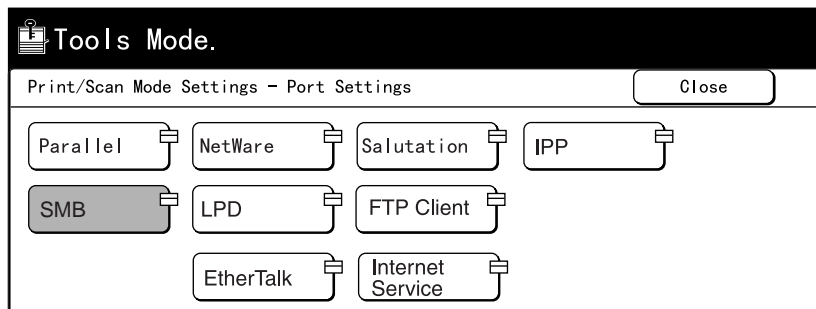
- 3 Select **Print/Scan Mode Settings**.



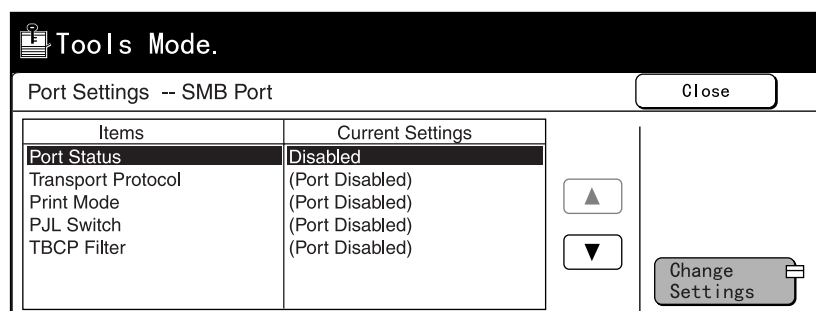
4 Select Port Settings.



5 Select SMB.

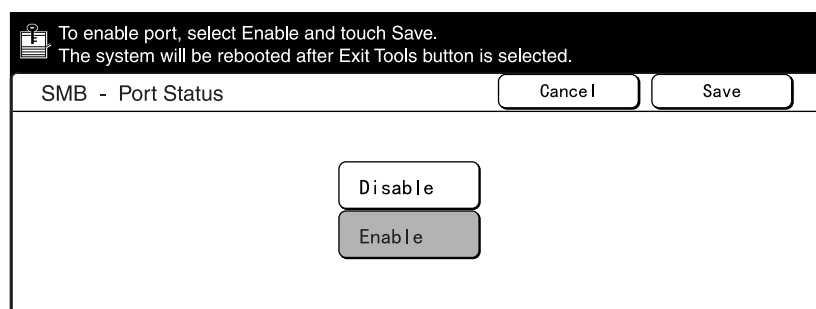


6 Select Port Status and then touch Change Settings.



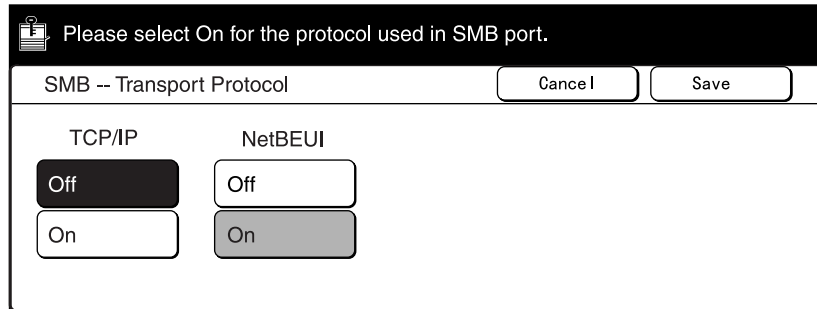
Note Although the default setting of Port Status for SMB Port is Enable, we display the Disable setting here for illustrating the procedure of activating the port.

7 Select Enable.



7.2 Setting NetBEUI in Printer

- ⑧ Select **On** for **NetBEUI**.



Please select On for the protocol used in SMB port.

SMB -- Transport Protocol

TCP/IP

Off

On

NetBEUI

Off

On

- ⑨ Select **Save** twice.

- ⑩ Select **Close** twice and then **Exit Tools**.
The machine will be rebooted.

7.2.2 Other Settings

If necessary, define the settings for the following items at the printer. However, there is no need to change the factory setting of these items for normal usage.

- SMB Print Mode (Factory setting: PCL*)
- SMB P/L Switch (Factory setting: On)
- SMB Spool (Factory setting: Hard Disk spool)



Refer to "Chapter 13 Configuring by the Tools Mode Screen".

- * If the optional PostScript software kit is installed, factory setting will be Auto.
- With SMB, you can store the print data output from the application in the spool file of the printer temporarily to be processed for printing. Set the spool mode by using the SMB spool of the receive buffer capacity.

Spool mode:

The mode which stores print data output from the application in the spool file of the printer temporarily to be processed for printing. You can choose to save the spool file in either the RAM disk which has used the printer memory or the hard disk connected to the printer. As the processing of print data after spooling will be done in the printer, the application in the client is released sooner. Requests from multiple clients can be processed at the same time.

Non spool mode:

The mode which processes printing while the print data output from the application is being received by the printer. When the printer is processing printing request from a client, printing request from other clients cannot be received.

Also, you have to define the following settings if you are using Internet Services:

- Workgroup
- Host Name
- Administrator Name (Factory setting: ADMIN)
- Administrator Password (Factory setting: admin)
- Administrator Password Check
- Maximum Sessions (Factory setting: 5)
- Auto Driver Download (Factory setting: On)
- Unicode Support (Factory setting: Enable)
- Auto Master Mode (Factory setting: On)
- Encrypst Password (Factory setting: On)
- Printer Language (Factory setting: English)



Refer to "Chapter 10 Using Internet Services" for details on using Internet Services.



Setting TCP/IP in Printer

When using TCP/IP for SMB, you have to set the following items from the touch panel display:

- define IP address (if the IP address has not been defined)
- select Enable for port status of SMB (factory setting: Enable)
- select On for TCP/IP as the transport protocol (factory setting: On)

7.3.1 Defining IP Address

Refer to "1.6 Setting IP Address for Network Environment" for information on defining the IP address.

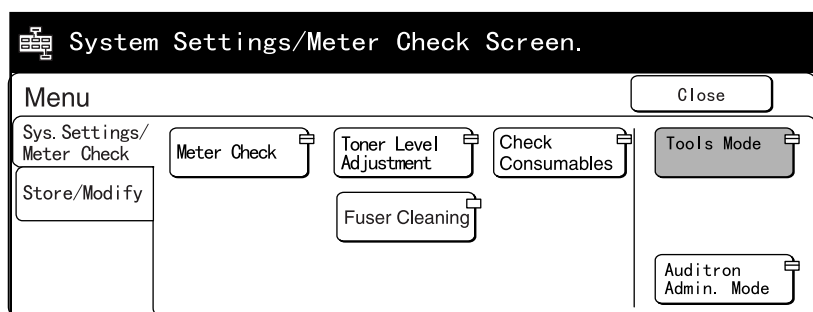
Depending on the network environment used, it may be necessary to set the subnet mask and gateway address as well. Discuss with your network administrator on the necessary settings to make.

7.3.2 Activating Port and Setting Protocol

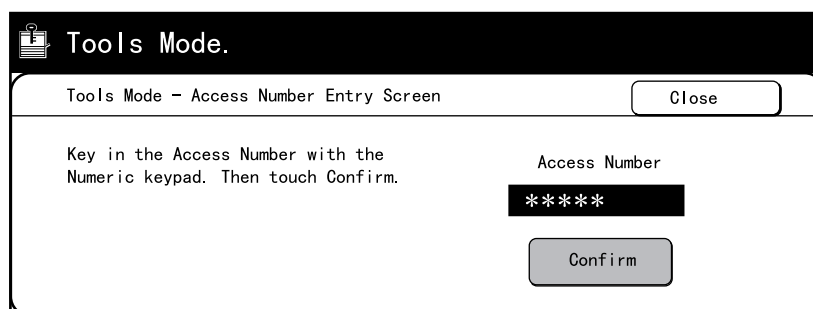
Follow the procedure below to activate the SMB port using the touch panel display.

Procedure

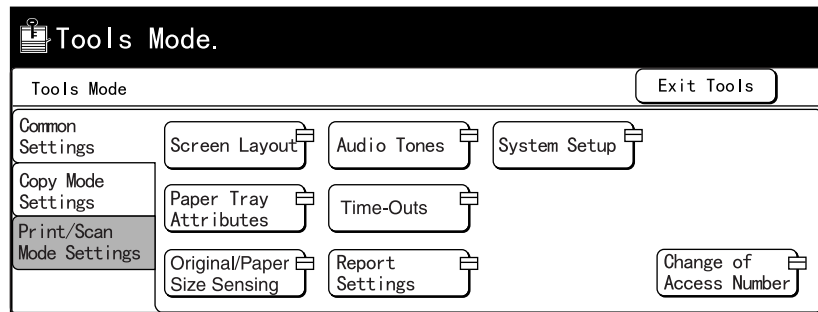
- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.



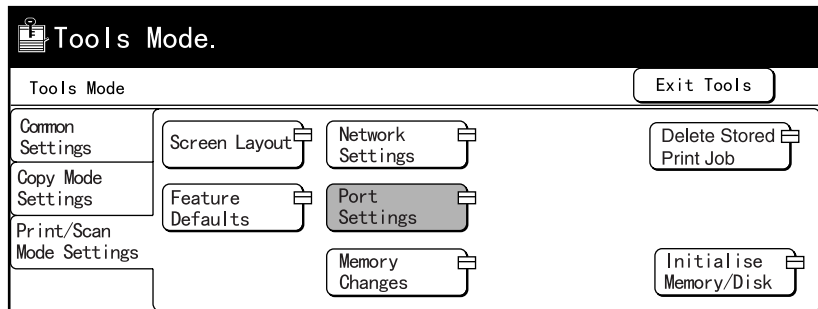
- 2 Enter the access number of the system administrator and touch **Confirm**. The factory setting of the access number is "11111".



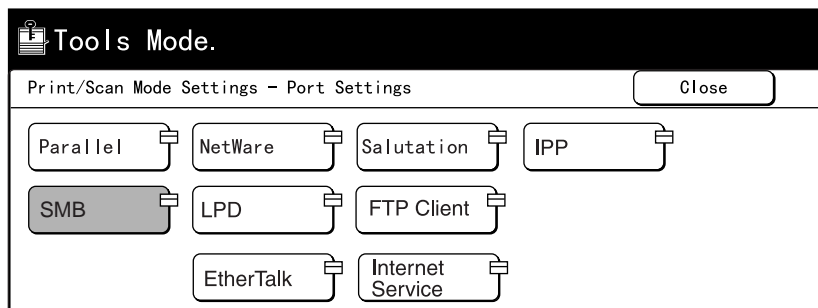
③ Select **Print/Scan Mode Settings**.



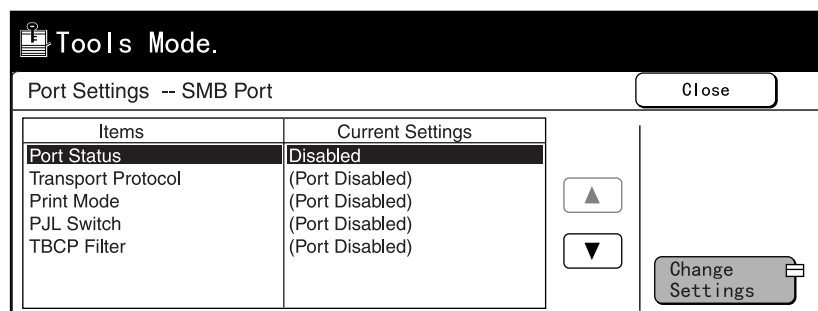
④ Select **Port Settings**.



⑤ Select **SMB**.



⑥ Select **Port Status** and then touch **Change Settings**.



Note Although the default setting of Port Status for SMB Port is Enable, we display the Disable setting here for illustrating the procedure of activating the port.

7.3 Setting TCP/IP in Printer

7 Select **Enable**.

To enable port, select Enable and touch Save.
The system will be rebooted after Exit Tools button is selected.

SMB - Port Status

Cancel Save

Disable

Enable

8 Select **ON** for **TCP/IP**.

Please select On for the protocol used in SMB port.

SMB -- Transport Protocol

Cancel Save

TCP/IP	NetBEUI
Off	Off
On	On

9 Select **Save** twice.

10 Select **Close** twice, followed by **Exit Tools**. The machine will be rebooted.

7.3.3 Other settings

Refer to "7.2.2 Other Settings".



Changing Printer and Workgroup Name

If necessary, you will need to change the SMB printer and workgroup names. However, you cannot change these names using the printer control panel. Instead, change them from Internet Services or Windows host computer. This section describes the procedure to change these names from the Windows host computer.

Note Refer to "Chapter 10 Using Internet Services" for details on operating Internet Services.

7.4.1 Through Windows Networking

You can change the SMB setting by accessing the file in the printer via the Windows network from the host computer, and then changing the information there. However, only the administrator is allowed to do this.

The procedure below explains how to overwrite the setting file (config.txt) at the first instance. Subsequently, you will need to know the following items that have been set: SMB Host Name, Workgroup, Administrator Name, and Administrator Password.

Note The factory setting of Administrator Name and Password of config.txt is both "admin".

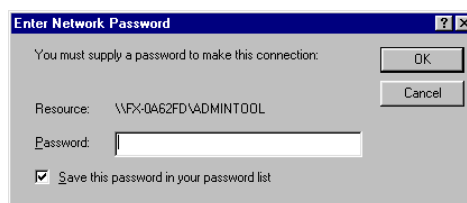
Procedure

- 1 Open **Network Neighborhood** from the Windows client computer, followed by **Workgroup** (factory setting: Workgroup) and then the printer.

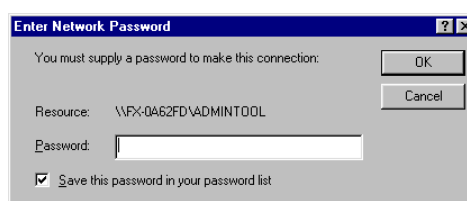
Note The factory setting of the host name of the printer is "FX-xxxxxx" (where xxxxxx is the last three bytes of the Ethernet address of the printer). You can confirm the name by referring to Host Name of SMB on the Printer Settings List.

- 2 Double-click the admintool folder.
The following dialog box will be displayed.

- For Windows 95/98/Me



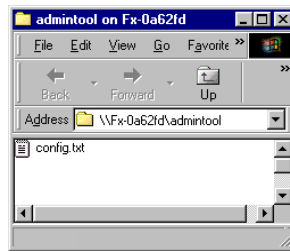
- For Windows NT 4.0/Windows 2000




7.4 Changing Printer and Workgroup Name

- ③ For Windows 95/98/Me, enter only the password (SMB Administrator Password) and for Windows NT 4.0/Windows 2000, enter the user name (SMB Administrator Name) and password (SMB Administrator Password). Then, click **OK**. The admintool folder will be opened.

Note  The factory setting of both Administrator Name and Password is "admin".




- ④ Using a text editor like Memo, open **config.txt**.
- ⑤ If necessary, change the workgroup and host name, and then overwrite and close config.txt.

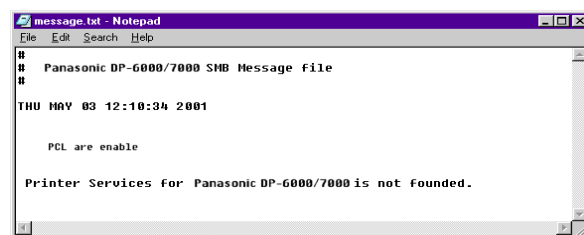
Note 

- The workgroup and host names can be set up to 15 bytes.
- For details on config.txt, refer to next page, "Setting format of config.txt".

The message.txt file is created inside the admintool folder.

- ⑥ Open **message.txt** and check that it displays the following information.

Note  If message.txt is not displayed, select Refresh from the "View" menu. If an error message appears, check the contents that have been set again.



- ⑦ Close **message.txt**.
- ⑧ Switch off the printer, and wait for at least five seconds before switching it on again.

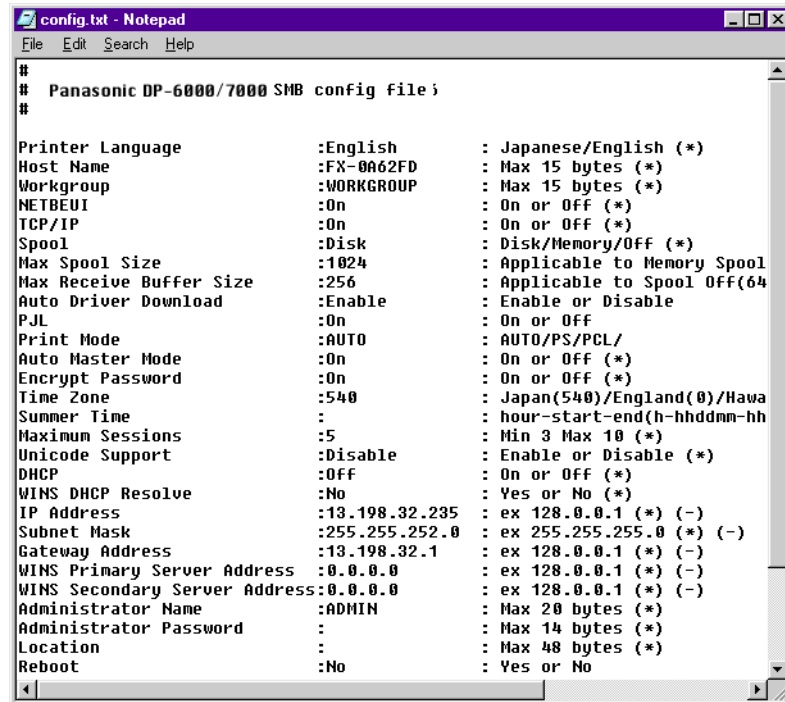
●●● Setting format of config.txt

Item	Remarks	Value	Factory Setting
Printer Language	Language to be used.	Japanese/ English	English
Host Name	Host name of the printer	Maximum 15 bytes	FX-xxxxxx (xxxxxx: last 3 bytes of the printer MAC address)
Workgroup	Name of workgroup of printer	Maximum 15 bytes	WORKGROUP
NETBEUI	Activation of NetBEUI protocol	On/Off	On
TCP/IP	Activation of TCP/IP protocol	On/Off	On
Spool	Activation of spool function. Can select from Disk, Memory, and Off. If Disk is not recognised when it is selected, it will become Off.	Disk/Memory/ Off	Off
Max Spool Size	The maximum receive buffer size during spooling. Can be set in 256 Kbyte units.	512 - 32768 (unit: Kbyte)	1024 Kbyte
Max Receive Buffer	The maximum receive buffer size during non-spooling. Can be set in 32 Kbyte units.	64 - 1024 (unit: Kbyte)	256 Kbyte
Auto Driver Download	Activation of the automatic downloading of printer driver.	Enable/Disable	Enable
PJL	Activation of PJL	On/Off	On
Print Mode	Set the printer language.	AUTO/PS/PCL	AUTO
Auto Master Mode	Activation of the automatic browse master feature. No available when WINS Server is designated.	On/Off	On
Encrypt Password	Activation of the encrypt password feature.	On/Off	On
Time Zone	Set the time zone in units of minutes.	-720 to 720 (unit: minutes)	540 mins (Japan)
Summer Time	Set the period of summer time	hour-start-end (h-hhddmm- hhddmm)	

7.4 Changing Printer and Workgroup Name

Item	Remarks	Value	Factory Setting
Maximum Sessions	Maximum connections of printer.	3 - 10	5
Unicode Support	Set whether to use unicode or local code (Shift JIS).	Enable/Disable	Disable
DHCP	Activation of DHCP.	On/Off	On
WINS DHCP Resolve	Activation of WINS DHCP Resolve.	On/Off	On
IP Address	Set the IP address.	-----	0.0.0.0
Subnet Mask	Set the subnet mask.	-----	0.0.0.0
Gateway Address	Set the gateway address.	-----	0.0.0.0
WINS Primary Server Address	Set the WINS primary server address	-----	0.0.0.0
WINS Secondary Server Address	Set the WINS secondary server address.	-----	0.0.0.0
Administrator Name	Administrator name.	Maximum 20 bytes	ADMIN
Administrator Password	Password of administrator. Current setting not displayed.	Maximum 14 bytes.	admin
Location	Comments on location of machine.	Maximum 48 bytes.	-----
Reboot	Printer will be rebooted after the editing of the config.txt parameter setting file if set to On. Usually set to Off when activated. Machine will not be rebooted even if it is set to On if there is an error in the setting.	On/Off	Off

●●● Example of config.txt



```

#
# Panasonic DP-6000/7000 SMB config file;
#

Printer Language      :English          : Japanese/English (*)
Host Name             :FX-0A62FD        : Max 15 bytes (*)
Workgroup             :WORKGROUP        : Max 15 bytes (*)
NETBEUI              :0n                : On or Off (*)
TCP/IP               :0n                : On or Off (*)
Spool                 :Disk             : Disk/Memory/Off (*)
Max Spool Size        :1024             : Applicable to Memory Spool
Max Receive Buffer Size :256            : Applicable to Spool Off(64
Auto Driver Download  :Enable           : Enable or Disable
PJL                  :0n                : On or Off
Print Mode            :AUTO             : AUTO/PS/PCL/
Auto Master Mode      :0n              : On or Off (*)
Encrypt Password      :0n              : On or Off (*)
Time Zone             :540              : Japan(540)/England(0)/Hawa
Summer Time           :                 : hour-start-end(h-hhddmm-hh
Maximum Sessions      :5                : Min 3 Max 10 (*)
Unicode Support       :Disable          : Enable or Disable (*)
DHCP                  :Off              : On or Off (*)
WINS DHCP Resolve     :No                : Yes or No (*)
IP Address            :13.198.32.235    : ex 128.0.0.1 (*) (-)
Subnet Mask           :255.255.252.0    : ex 255.255.255.0 (*) (-)
Gateway Address       :13.198.32.1       : ex 128.0.0.1 (*) (-)
WINS Primary Server Address :0.0.0.0      : ex 128.0.0.1 (*) (-)
WINS Secondary Server Address:0.0.0.0   : ex 128.0.0.1 (*) (-)
Administrator Name    :ADMIN           : Max 20 bytes (*)
Administrator Password :              : Max 14 bytes (*)
Location              :              : Max 48 bytes (*)
Reboot                :No              : Yes or No

```



Auto Driver Downloading

When installing printer driver to Windows 95, Windows 98 or Windows Me client computer, you can define setting to use the automatic driver downloading feature.

Note This feature is not applicable to Windows NT 4.0 or Windows 2000.

7.5.1 Preparation for Auto Driver Downloading

The following procedure explains the preparations needed in order to use the auto driver downloading feature. Only the administrator can define this setting.

Procedure

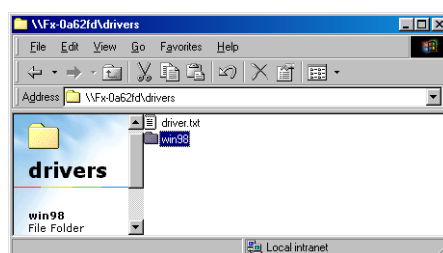
- 1 Open **Network Neighborhood** from the Windows client computer, followed by **Workgroup** (factory setting: Workgroup) and then the printer (e.g. **Fx-0a62fd**).
- 2 By referring to "7.4 Changing Printer and Workgroup Name", open the config.txt inside the "admintool" folder, and then check that Auto Driver Download is set to Enable (factory setting: Enable).

```
#
# Panasonic DP-6000/7000 SMB config file;
#

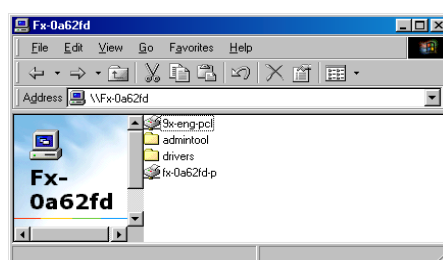
Printer Language      :English          : Japanese/English (*)
Host Name             :FX-0A62FD        : Max 15 bytes (*)
Workgroup             :WORKGROUP        : Max 15 bytes (*)
NETBEUI              :0n              : On or Off (*)
TCP/IP               :0n              : On or Off (*)
Spool                :Disk            : Disk/Memory/Off (*)
Max Spool Size        :1024           : Applicable to Memory Spool
Max Receive Buffer Size :256           : Applicable to Spool Off(64)
Auto Driver Download  :Enable          : Enable or Disable
PJM                  :0n              : On or Off
Print Mode            :AUTO          : AUTO/PS/PCL/
Auto Master Mode      :0n              : On or Off (*)
Encrypt Password      :0n              : On or Off (*)
Time Zone             :540            : Japan(540)/England(0)/Hawa
Summer Time           :
Maximum Sessions      :5              : Min 3 Max 10 (*)
Unicode Support        :Disable         : Enable or Disable (*)
DHCP                  :Off            : On or Off (*)
WINS DHCP Resolve     :No             : Yes or No (*)
IP Address            :13.198.32.235   : ex 128.0.0.1 (*) (-)
Subnet Mask           :255.255.252.0   : ex 255.255.255.0 (*) (-)
Gateway Address       :13.198.32.1     : ex 128.0.0.1 (*) (-)
WINS Primary Server Address :0.0.0.0       : ex 128.0.0.1 (*) (-)
WINS Secondary Server Address:0.0.0.0       : ex 128.0.0.1 (*) (-)
Administrator Name    :ADMIN          : Max 20 bytes (*)
Administrator Password :              : Max 14 bytes (*)
Location              :              : Max 48 bytes (*)
Reboot                :No             : Yes or No
```

- 3 Close config.txt and then open the "drivers" folder.

- ④ Insert the CD-ROM that comes with this manual into the CD-ROM drive and open it through Windows Explorer or My Computer.
- ⑤ Create a folder inside the "drivers" folder. Name the folder with a maximum of eight characters. You can create up to a maximum of two levels of folders. Here, we will create a folder called **win98**.



- ⑥ Copy the appropriate printer driver (e.g. 9x-eng-pcl) in the CD-ROM to the "win98" folder. Close the "drivers" folder.
- ⑦ Switch off the power of the printer, and wait for five seconds before switching it on again.
- ⑧ Open **Network Neighborhood** from the Windows client computer, followed by **Workgroup** (factory setting: Workgroup) and then the printer (e.g. **Fx-0a62fd**). You will notice that there is a printer icon of the printer driver (9x-eng-pcl) that you copied, added into the printer icon folder. You are now ready for auto driver downloading.



7.5.2 Auto Downloading of Printer Driver

The following procedure explains how to use this auto downloading feature of the printer driver to install printer driver to the client computer. We will install the PCL 6 printer driver to Windows 98 here as an example.



Note If you are not sure of your Workgroup or Host Name, see your system administrator.

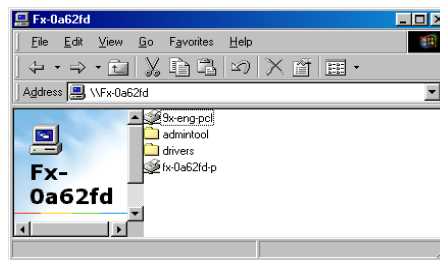
Procedure

1

Open **Network Neighborhood** from the Windows client computer, followed by **Workgroup** (factory setting: Workgroup) and then the printer (e.g. Fx-0a62fd).

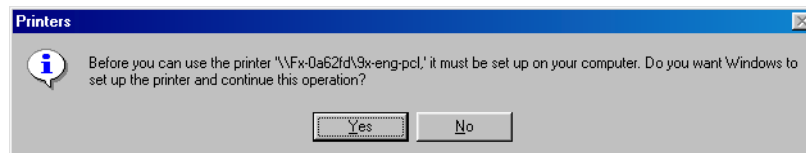


Note The factory setting of Workgroup is Workgroup and host name of the printer is "Fx-xxxxxx" (where xxxxxx is the last three bytes of the Ethernet address of the printer). See your system administrator for the current setting.



2

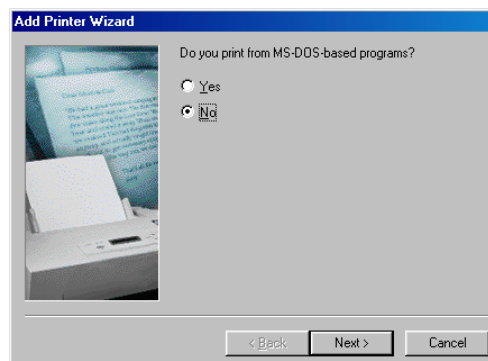
The following message appears. Select **Yes**.



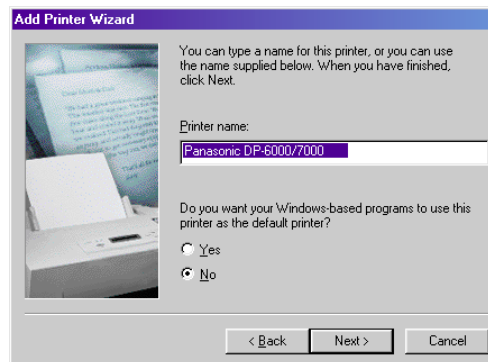
3

The Add Printer Wizard dialog box appears.

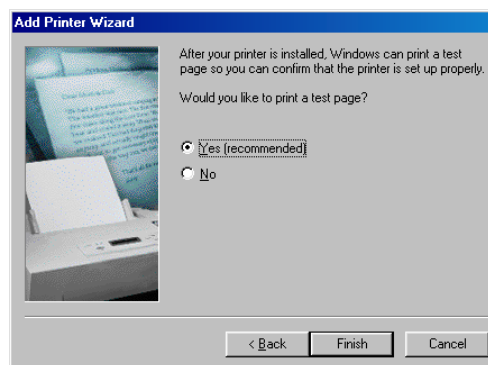
Select **Yes** if you want to print from MS-DOS-based programs and **No** if you do not want to, and then click **Next**.



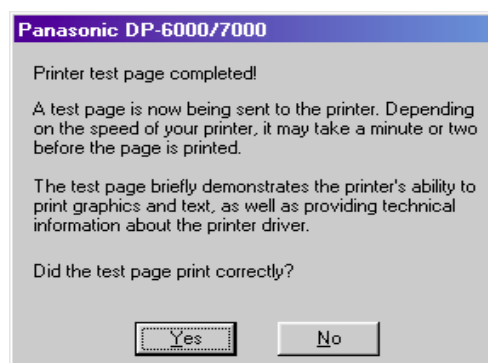
- 4 If necessary, change **Printer name**.
Click **Yes** if you want to use the printer as a default printer and **No** if you do not want to.
Then click **Next**.



- 5 Click **Yes** if you want to print a test page and **No** if you do not want to. Then click **Finish** to start the installation.

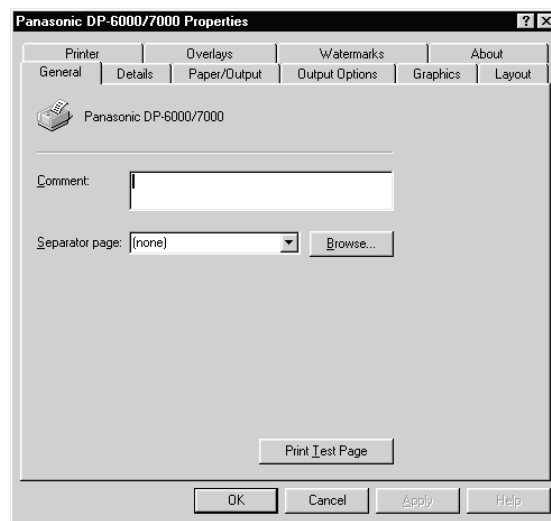


- 6 If you have chosen to print a test page, the following message appears. Check that the test page has been correctly printed and then click **Yes**.



7.5 Auto Driver Downloading

- 7 The printer icon of the newly installed printer is added to the "Printers" folder and the printer is now ready for use.
The printer window is displayed for you to specify settings.
- 8 From the "Printers" menu, select **Properties**.
The printer properties dialog box is displayed.



- 9 Refer to "4.3 Configuring the Printer Drivers" to configure your settings.



Setup for NetWare

8.1	Using NetWare	122
8.2	Setup for NetWare	124
8.3	Setup for the Printer	125
8.4	Setup for the Client	129

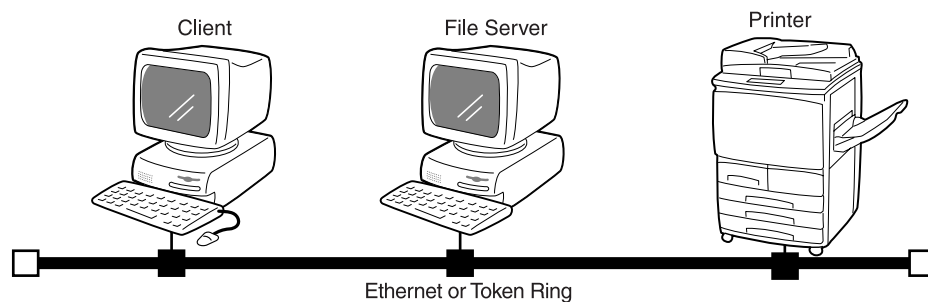


Using NetWare

This section explains the characteristics and the operating environment of the printer when it is connected to a Novell NetWare network.

8.1.1 System Configuration

The system configuration is as follows:



This printer is compatible with NetWare 3.1X/4.1/4.1X/5.X. It also supports Directory Services using the Print Server mode.

Note *This printer does not support Novell Distributed Print Services (NDPS), a feature introduced by NetWare 5.*

- Print server mode (PSERVER mode) in which the printer functions as a print server
In the PSERVER mode, the printer will function as a print server and retrieve print jobs from the print queue for printing. As it fully utilizes the functions of the printer, this mode is superior to the remote printer mode in terms of system capacity. However, in this mode, the printer will take up one user license of the file server.

8.1.2 Target Computers

The target computers must meet the following requirements:

- Compatible file servers
Novell-accredited PC which can be installed with NetWare 3.1X/4.1/4.1X/5.X.
- Compatible workstations
Novell-accredited PC which can run Windows 95, Windows 98, Windows Me, Windows NT 4.0, or Windows 2000.

8.1.3 Interface

The printer supports the following types of Ethernet interface:

- 10Base-T (Twisted Pair Cable)
- 100Base-TX (Twisted Pair Cable)

The following frame types are supported:

- Ethernet II specification
- IEEE 802.3 specification
- IEEE 802.3/802.2 specification
- IEEE 802.3/802.2/SNAP specification

The printer will send out packets of each frame type on the connected network and activate automatically by the frame type which responded first.

However, if other protocols are running simultaneously on the same network, use the frame type that the NetWare server is using.



Some network components (such as the hub) may not support automatic setup for frame type. If the data link indicator light of the port which is connected to the printer of the network component does not light up, match the setting (IPX/SPX setting) of the frame type of the printer to the frame type of the file server.



Setup for NetWare

This section describes the flow of setup the printer in a network environment running NetWare.

8.2.1 Flow of Setup

- 1 Setting up the printer
Set the NetWare interface port to Enable (factory setting: Disable) and activate the protocol to be used from the printer control panel. Print the printer settings list and check the device name (Host Interface Setup>NetWare>Device).

 "8.3 Setup for the Printer"

- 2 Setting the NetWare print service
Using PCONSOLE or NetWare Administrator (NWADMIN), create print queue, print server and printer and assign the respective objects.



- When using in the PSERVER mode, use the device name checked in Step 1 for the print server name. Set Printer Location as Auto Load (Local).
- For information on how to use PCONSOLE or NWADMIN, see the manual which comes with NetWare. For NetWare 5.X, only NWADMIN is available for use.

- 3 Setting up the client
Install a printer driver compatible with the printer to a PC. Different printer drivers are used for different operating systems.



Use a PC that is functioning properly as a client of NetWare.



"8.4 Setup for the Client"



Setup for the Printer

This section describes the procedure to set the port for NetWare interface to Enable (factory setting: Disable), activate the protocol to be used, print the printer settings list and check the device name.

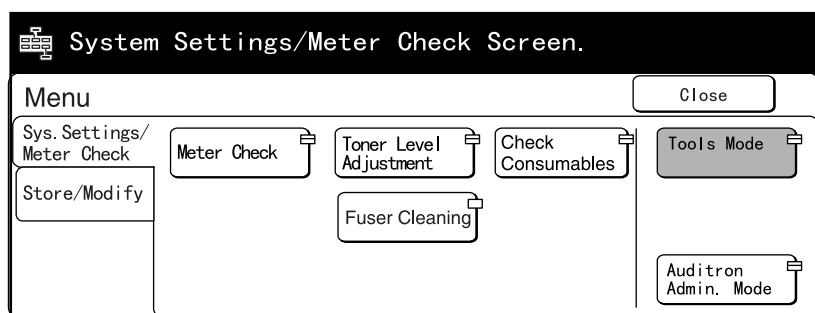
8.3.1 Setting the Port to Enable

Activate the NetWare® port by the following procedure:

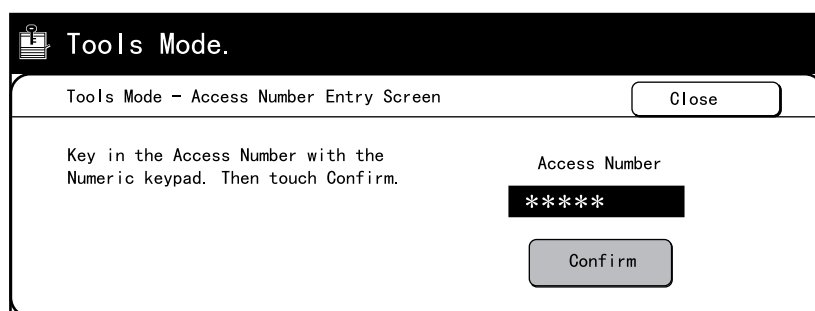
LOOK When setting the port to Enable leads to insufficient memory, a message about the insufficient memory may be displayed on the control panel and the port status may be set to Disable automatically. If this happens, set the ports which are not in use to Disable and change the memory size.

Procedure

- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.

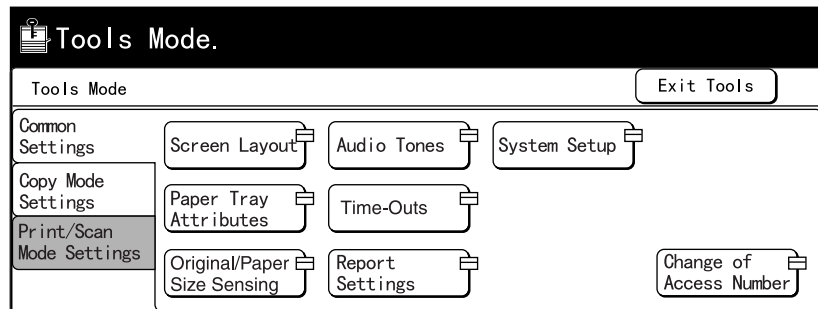


- 2 Enter the access number of the system administrator and touch **Confirm**. The factory setting of the access number is "11111".

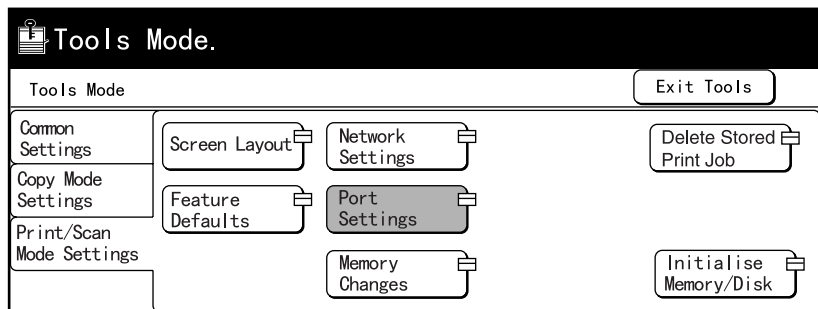


8.3 Setup for the Printer

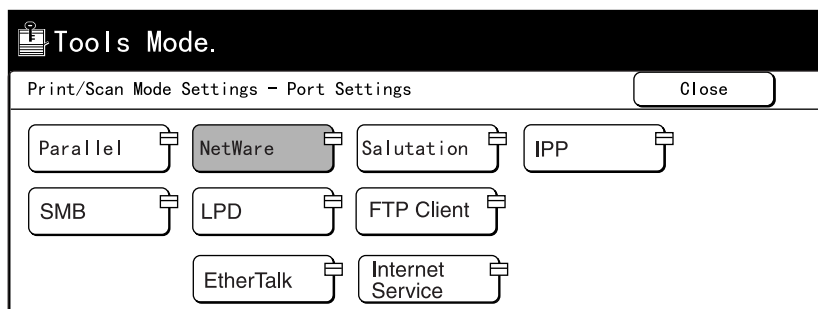
3 Select **Print/Scan Mode Settings**.



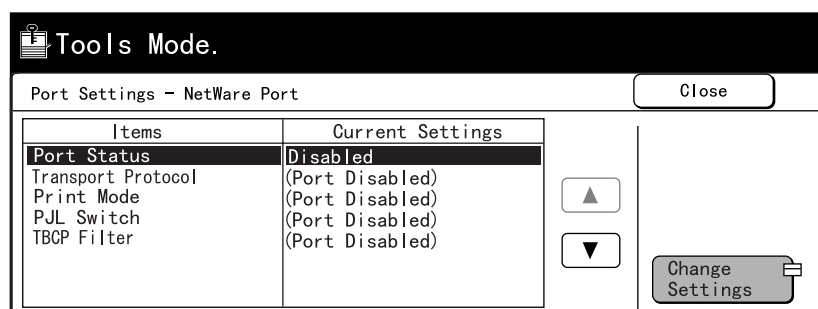
4 Select **Port Settings**.



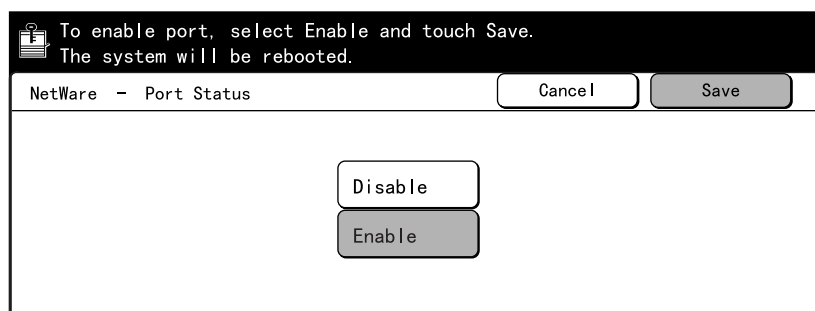
5 Select **NetWare**.



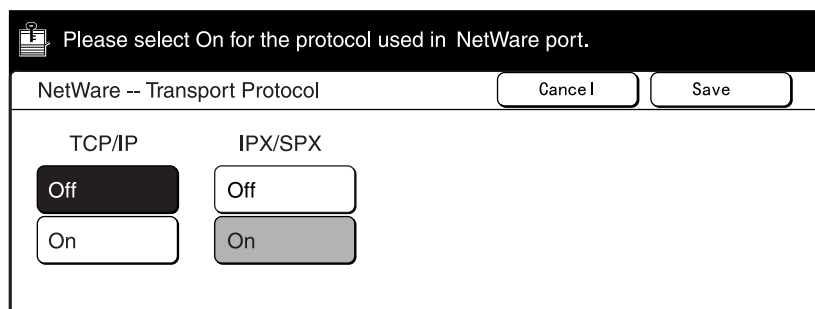
6 Select **Port Status** and then touch **Change Settings**.



7 Select **Enable**.



8 Select **On** for the protocol to be used for NetWare.



9 Select **Save** twice.

10 Select **Close** twice and then **Exit Tools**.
The machine will be rebooted.

8.3.2 Other Settings

When necessary, adjust the following settings on the printer. However, the factory setting of these items do not need to be changed for normal use.

- Print Mode (Factory setting: PCL*)
- P/L Switch (Factory setting: On)
- NetWare Receive Buffer (Factory setting: 256 KB)
- IPX/SPX (Factory setting: On)

See ••• "Chapter 13 Configuring by the Tools Mode Screen" for details on the settings of the printer.

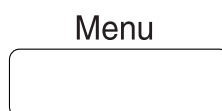
Note • If the optional PostScript software kit is installed, factory setting will be Auto.

8.3.3 Printing the Printer Settings List

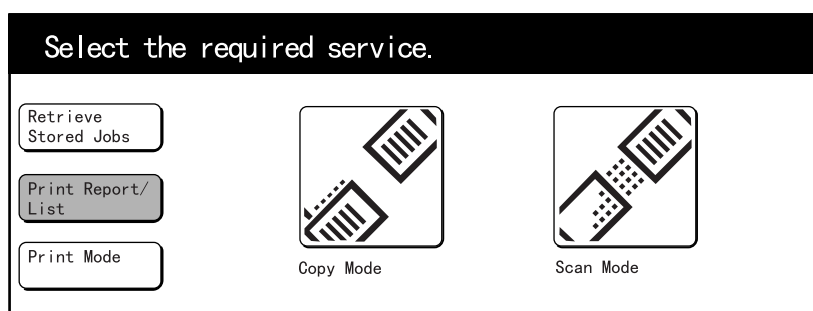
Follow the procedure below to print the printer settings list. When the printer settings list is printed, check the network address (Maintenance Mode Settings>IPX/SPX Setup>Network Address) and device name (Host Interface Setup>NetWare>Device).

Procedure

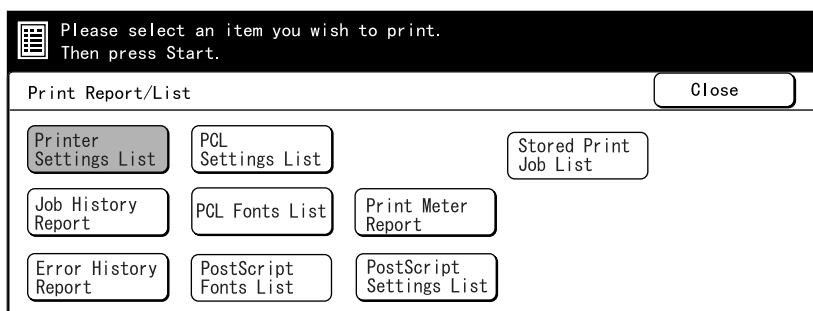
- ① When the Menu screen is not displayed, press the **Menu** button on the control panel.



- ② Select **Print Report/List** on the screen displayed.



- ③ Select **Printer Settings List** and then press the **Start** button on the control panel. The printer settings list will be printed.





Setup for the Client

When the OS of the PC is Windows 95, Windows 98, Windows Me, Windows NT 4.0 or Windows 2000, install the printer driver following the procedure below.

8.4.1 Windows 95/98/Me, Windows NT 4.0 or Windows 2000

Procedure

- 1 Install the printer driver for Windows 95/98/Me, Windows NT 4.0 or Windows 2000 by running the "Setup.exe" program. Click **Add Network Port** and select the network printer from **Network Neighborhood**.



"4.2.2 For a Network Printer" for details on the installation of the printer driver.



- When you are printing, make sure that you uncheck the "Enable Banner" check box displayed on the "Printer Settings" tab of the printer properties dialog box. Otherwise, you might not be able to obtain the desired printing result.
- When you encounter any problem, you can refer to the Readme.txt file in the "Inffile" folder of the driver that you are installing, stored in the "PCL6 Printer Driver, Utilities & Documentation" CD-ROM.

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9 Using the Internet Printing Protocol

9.1	Introduction	132
9.2	Setup of the Printer and Installing the Printer Driver	135

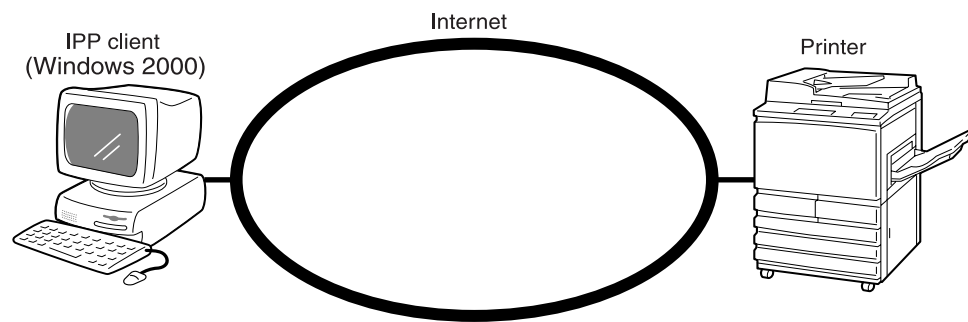


Introduction

This machine supports the Internet Printing Protocol (IPP). As Windows 2000 is installed with the IPP port monitor, the client software for outputting to IPP printer, you can specify printing to an IPP-supported printer from the Add Printer window of the printer program in the control panel. Using IPP, you can print to a distant printer via the Internet or an intranet.

9.1.1 System Environment




The essential system environment is as follows:



- using TCP/IP protocol
- Microsoft Windows 2000 Server
- Microsoft Windows 2000 Professional
- Microsoft Windows 2000 Advanced Server

9.1.2 Setup

Procedure

- ❶ Define the IP address.
 "... *"1.6 Setting IP Address For Network Environment"*
- ❷ At the printer, select Tools Mode, Print/Scan Mode Settings, Port Settings, Internet Service, Enable (factory setting: Enable).
 "... *"Chapter 13 Configuring by the Tools Mode Screen"*
- ❸ At the computer and on the Internet Services screen, select the Properties tab, Port Status, and then check the Enable (factory setting: Enable) check box for IPP.
- ❹ At the computer, setup the printer and install the driver.
 "... *"Chapter 4 Installing and Configuring Printer Drivers"*

9.1.3 Other Setting Items

If necessary, define the following items related to IPP on the Internet Services screen (Properties tab > Protocol settings > IPP). However, there is no need to change the factory setting of these items for normal usage.

- IPP Port Number (Factory setting: 80)
- IPP Print Mode (Factory setting: PCL*)
- IPP PJP Switch (Factory setting: On)
- IPP TBCP Filter (Factory setting: Disable)
- IPP Access Control (Factory setting: Disable)
- IPP DNS (Factory setting: Disable)
- IPP Connection Time-Out (Factory setting: 60 sec)
- IPP Spool (Factory setting: Hard Disk spool)



- *These settings cannot be defined at the printer touch panel display.*
- ** If the optional PS3 (PostScript software) kit is installed, factory setting will be Auto.*
- *Port Number is the port number used for receiving data. It is fixed at 631 and for additional port, you can define the number as 80 or between 8000-9999. If you assign 0 as the port number, the added port will not be enabled. This setting is effective after the printer is rebooted.*
- *With IPP, you can store the print data output from the application in the spool file of the printer temporarily to be processed for printing. Set the spool mode by using the IPP spool of the receive buffer capacity.*

Spool mode:

The mode which stores print data output from the application in the spool file of the printer temporarily to be processed for printing. You can choose to save the spool file in either the RAM disk which has used the printer memory or the hard disk connected to the printer. As the processing of print data after spooling will be done in the printer, the application in the client is released sooner. Requests from multiple clients can be processed at the same time.

Non spool mode:

The mode which processes printing while the print data output from the application is being received by the printer. When the printer is processing printing request from a client, printing request from other clients cannot be received.

- *The maximum spool number is 1,000. However, depending on the empty capacity, you may spool up to 200 only.*



For non spool mode, if a job is sent when the printer is in sleep mode, the buffer may become full and the printing request may not be completed. When this happens, deactivate the sleep mode of the printer and the printing request will be completed.



Setup of the Printer and Installing the Printer Driver

After the printer protocol setup is done, carry out the following procedure on the computer.



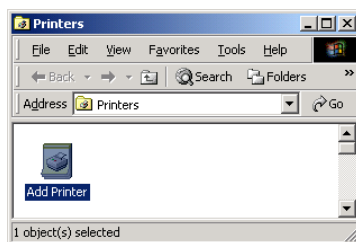
- Before installing the printer driver on the client computer, check that Internet Protocol (TCP/IP) has been installed. If it has not been installed, refer to the Windows 2000 manual to install it.
- When using the internet printing via the proxy server, an error message, "Cannot be connected to the internet" may appear when setting the printer. When this happens, change the setting of the IP address without going through the proxy server by selecting **Printer, Settings, Control Panel**, and then **Internet Options**. For details on the setup method, refer to the Windows 2000 manual.

9.2.1 For Windows 2000

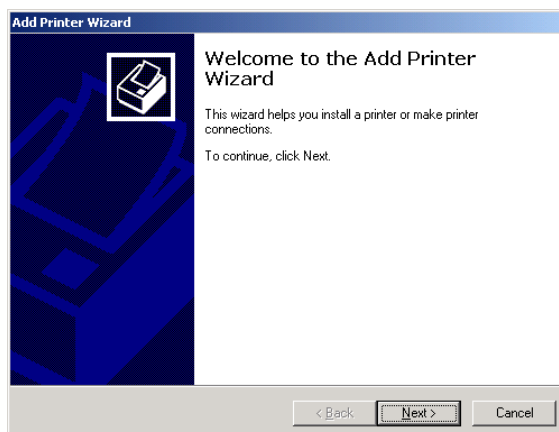
Procedure

- 1 Click **Start**, and then select **Settings**, followed by **Printers**.
The Printers window appears.

- 2 Double click **Add Printer**.
The Add Printer Wizard dialog box appears.

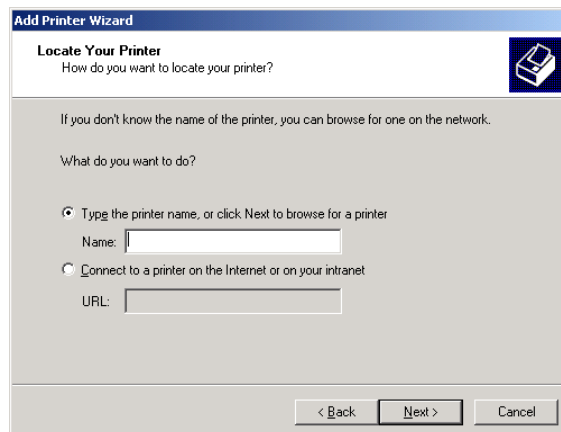


- 3 Click **Next**.



9.2 Setup of the Printer and Installing the Printer Driver

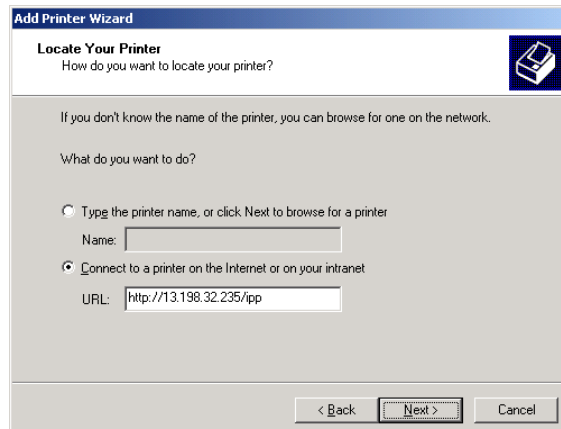
- ④ Select **Network printer** and then click **Next**.
The screen to locate your printer appears.




- ⑤ Select **Connect to a printer on the Internet or on your intranet**, enter the following URL, and then click **Next**:

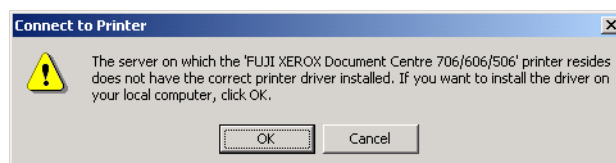
`http: //"printer IP address"/ipp`

The printer connection dialog box appears.



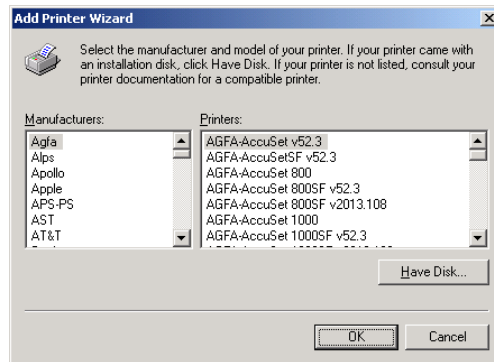
Note  If the DNS setting has been defined for the client and the host name is effective, you can enter the host name instead.

- ⑥ Click **OK**.
The screen to select the manufacturer and model of your printer appears.

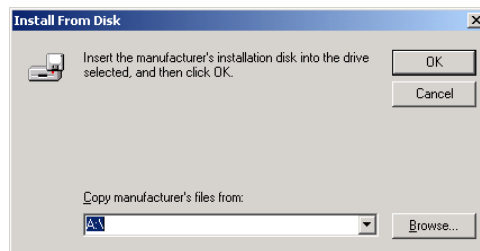


- ⑦ Insert the "PCL6 Printer Driver, Utilities & Documentation" CD-ROM to the CD-ROM drive.

- 8 Click **Have Disk**.
The Install From Disk dialog box appears.



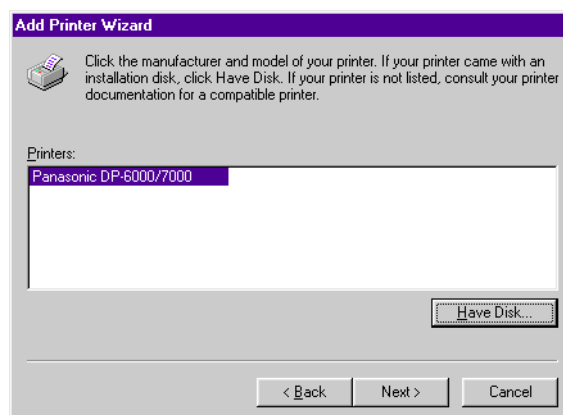
- 9 Enter "E:\Driver_PCL6\English\Win2000\Setup\Setup.exe" at **Copy manufacturer's files from**, and then click **OK**.



- Note**
- In this example, we assume that drive E is the CD-ROM drive. Enter the appropriate letter for your CD-ROM drive.
 - You can also click *Browse* to locate the driver folder inside the CD-ROM.

The screen to select the printer driver appears.

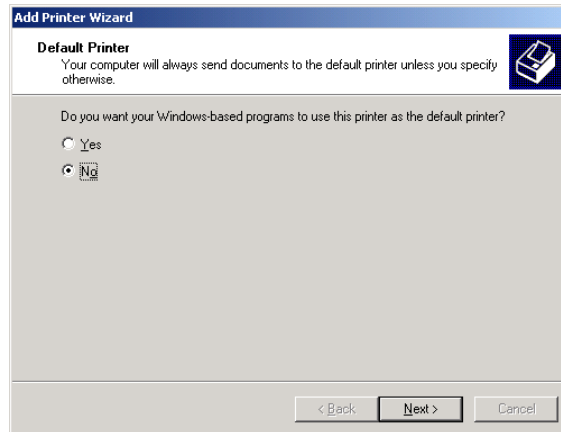
- 10 Select **Panasonic DP-6000/7000** and then click **Next**.



The screen to specify whether to use this printer as the default printer appears.

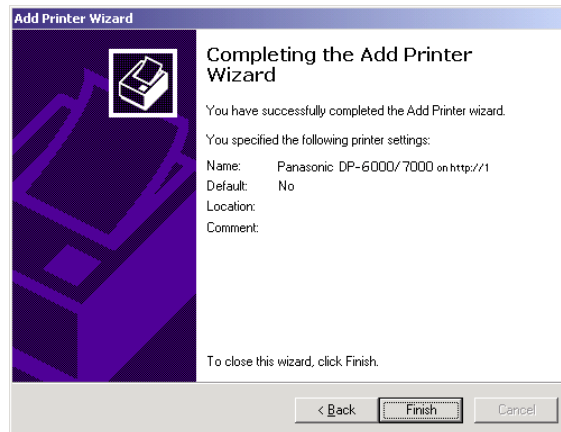
9.2 Setup of the Printer and Installing the Printer Driver

- 11** Select **Yes** when you want to use the printer as the default printer and **No** when you do not want to use it as the default.



The essential files will be copied.
After the copying is done, the following screen appears.

- 12** Click **Finish**.



10

Using Internet Services

10.1 Using Internet Services	140
10.2 Configuring Browser	142
10.3 Configuring Printer	144
10.4 Activating Browser	147



Using Internet Services

Internet Services is a software that enables the user to display the printer/job status or change the printer settings via a web browser when the DP-6000/7000 printer has been configured for the TCP/IP environment.

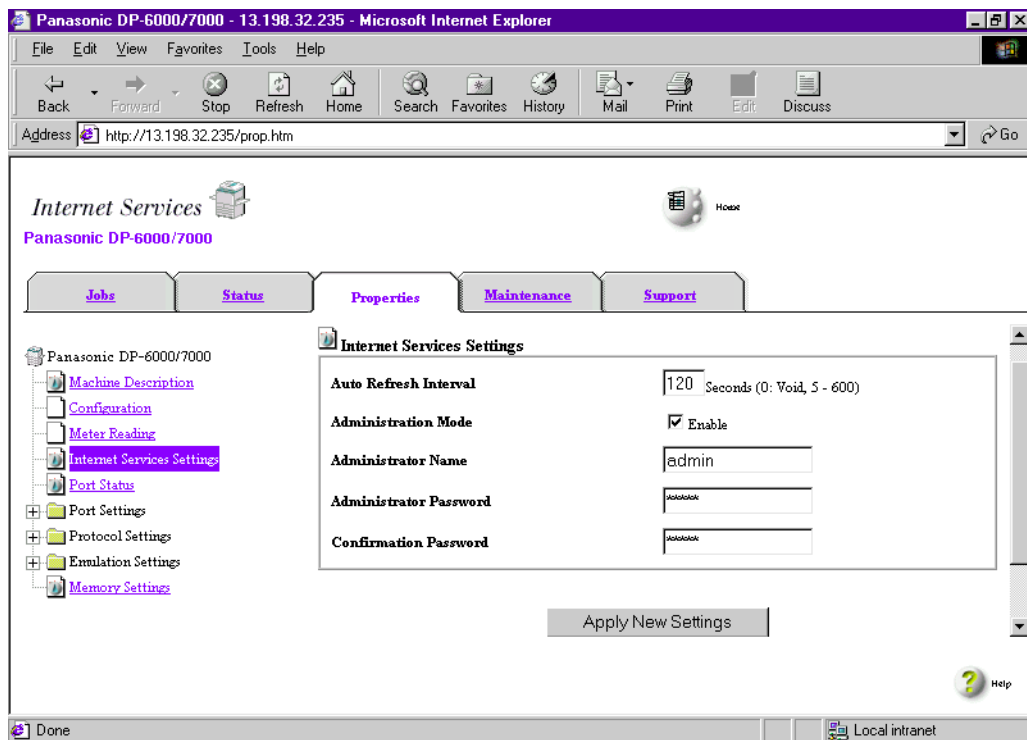
Using the Properties dialog box of Internet Services, you can define the settings on the printer control panel, like the items of system settings or the various network port settings.

See ... Depending on the items, some settings become effective only after rebooting (after switching on/off the printer, or after defining the system settings using the printer control panel).

10.1.1 Structure of the Internet Services Screen

The Internet Services screen consists of four parts: a panel each at the top and bottom parts of the window (top panel, bottom panel), as well as two frames on the left and right at the middle part of the window (left frame, right frame).

The contents of each part change according to the features used (Jobs, Status, Properties, Maintenance, or Support).



●●● Top panel

The top panel is at the top of the window. A logo mark and the printer name are displayed on the top page (default status) as well as on every category page. In addition, you will find tabs to link to the top page and to move to each category on every category page.

●●● Bottom panel

The bottom panel is at the bottom of the window. It displays links to the Customer Support Home Page, copyright screen, and the Help file. The contents in this panel remain unchanged regardless of which page is displayed.

●●● Right and left frame

The right and left frames are in the middle of the window. The contents in these frames will change according to the items selected in the category.

10.1.2 System Environment

To use Internet Services, you will need to activate the network environment using TCP/IP protocol as well as to set the Internet service to Enable (factory setting: Disable) at the printer.

10.1.3 Target Host Computers and Browsers

To use Internet Services, you will need to activate the network environment using TCP/IP protocol on the client computer. You will also need an approved version of Internet Browser software installed.

●●● Host computers

- Microsoft Windows 95 OS
- Microsoft Windows 98 OS
- Microsoft Windows Me OS
- Microsoft Windows NT Server 4.0
- Microsoft Windows NT Workstation 4.0
- Microsoft Windows 2000 Server
- Microsoft Windows 2000 Professional
- Macintosh OS 8.0 onwards

●●● Browsers

- Netscape Communicator (version 4.51 or higher for Windows/version 4.5 or higher for Macintosh)
- Internet Explorer version (version 4.01 or higher for Windows/version 5.0 or higher for Macintosh)



Configuring Browser

Before using Internet Services, check the following settings on your browser.

10.2.1 Checking Browsers

••• For Netscape Communicator

Procedure

- ❶ From the Edit menu, select **Preferences**.
- ❷ From the Category tree, click **Advanced**.
- ❸ If the Enable Java check box is not selected, select it.
- ❹ Click the "+" sign on the left of **Advanced**.
- ❺ Click **Cache** under **Advanced**.
- ❻ Select **Once per session** or **Every time** for **Document in cache is compared to document on network**.
- ❼ Click **OK**. The dialog box is closed.

••• For Internet Explorer

Procedure

- ❶ Select **Internet Options** from the View menu for version 4.x, and **Internet Options** from the Tools menu for version 5.x.
- ❷ Click **Settings** for **Temporary Internet files** on the General tab.
- ❸ In **Check for newer versions of stored pages**, select either **Every visit to the page** or **Every time you start Internet Explorer**, and then click **OK**.
- ❹ Click **OK** on the Internet Options dialog box.

10.2.2 Checking Proxy Server and Port Number

Here, the proxy server setting and port number when using Internet Services are explained.

●●● Proxy server setting

When using Internet Services, it is recommended that you do not connect to a proxy server but make direct connections.



When you define connection to be made to a proxy server, it might take a long time to set the IP address at the browser or the screen might not be displayed. When this happens, change the setting to a direct connection at the browser. For details on how to define these settings, refer to the manuals of the browser that you are using.

●●● Port number setting

The factory setting of the port number of the Internet Services is 80. The port number can also be changed from the Properties screen. The port numbers that can be set are 80, 8000 - 9999.

After the port number has been changed, it is necessary to specify the number after ":" of the address when connecting from the browser.

For example, for port number, "8080", enter the number to the internet or IP address as follows:

`http://13.199.56.142:8080.`



You can check the port number under Communications Settings of the Printer Settings List. For details of the Printer Settings List, refer to "12.1.2 Printer Settings List".




Configuring Printer

This section describes the configurations to be done at the printer.

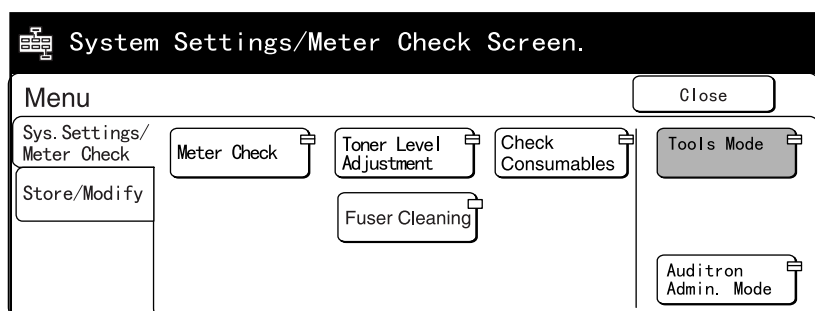
10.3.1 Activating Internet Service

Activate Internet Service on the touch panel display by the following procedure.

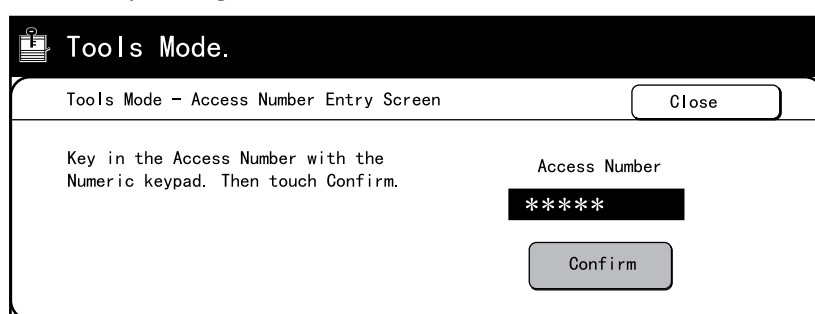
LOOK  If the IP address has not been defined, follow the message displayed to define it after the Internet Service is activated.

Procedure

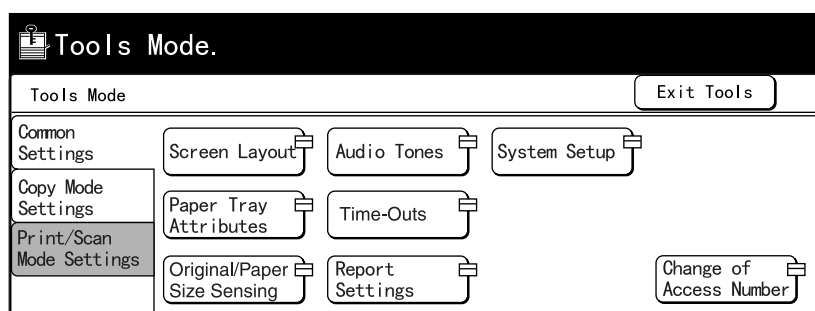
- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.



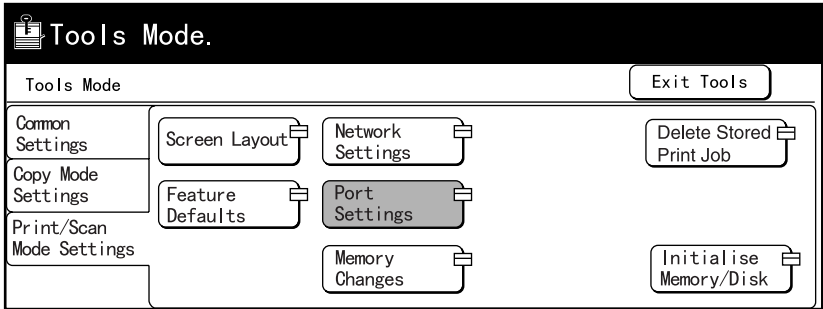
- 2 Enter the access number of the system administrator by using the numeric keypad and touch **Confirm**.
The factory setting of the access number is "11111".



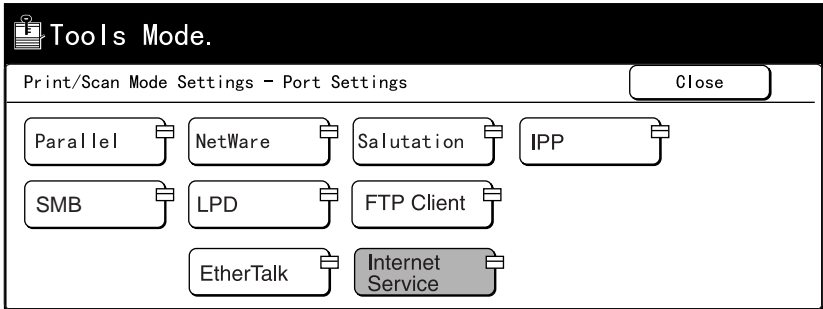
- 3 Select **Print/Scan Mode Settings**.



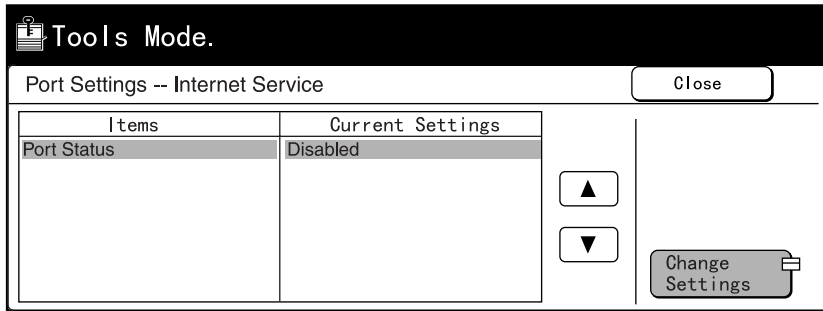
4 Select **Port Settings**.



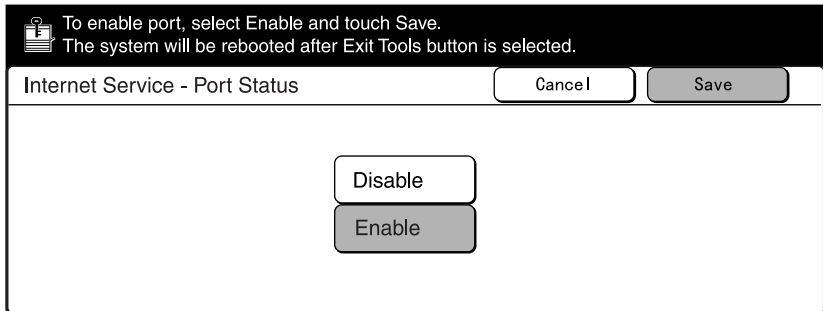
5 Select **Internet Service**.



6 With **Port Status** selected, touch **Change Settings**.



7 Select **Enable** and then touch **Save**.



10.3 Configuring Printer

- ⑧ Select **Close** twice until the screen at Step 4 is displayed.
- ⑨ Select **Exit Tools**.
The machine will be rebooted.

10.3.2 Other Internet Service Settings Items

Define the following settings for Internet Service after Internet Service has been enabled at the printer. You can define these items by clicking **Internet Services Settings** on the Properties tab.

- Auto Refresh Interval (Factory setting: 30 sec)
- Administration Mode (Factory setting: Enable)
- Administrator Name
- Administrator Password
- Confirmation Password



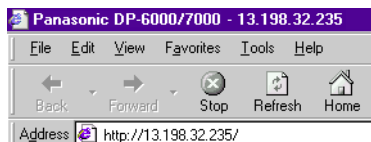
Activating Browser

This section describes the procedure to activate the browser when using the Internet Services.

10.4.1 Activating Browser

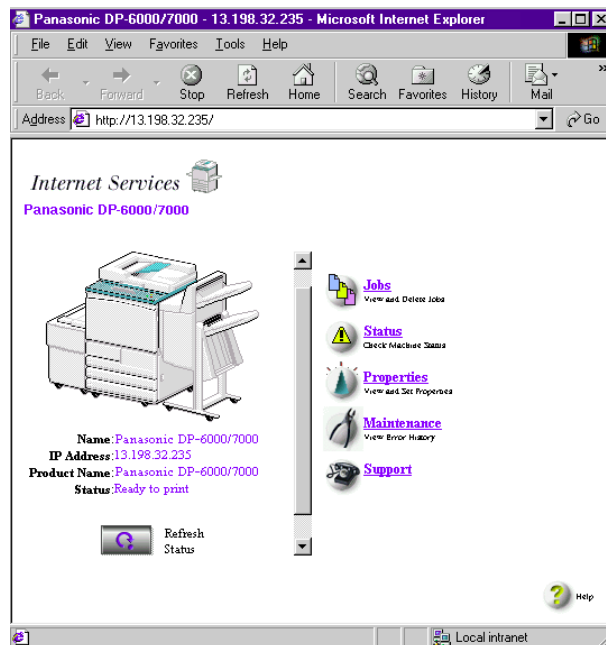
Procedure

- ❶ Switch on the host computer and activate the browser.
- ❷ At the address column of the browser, enter the IP address or internet address of the printer, and then press **Enter** on the keyboard.
 - Example of specifying an IP address



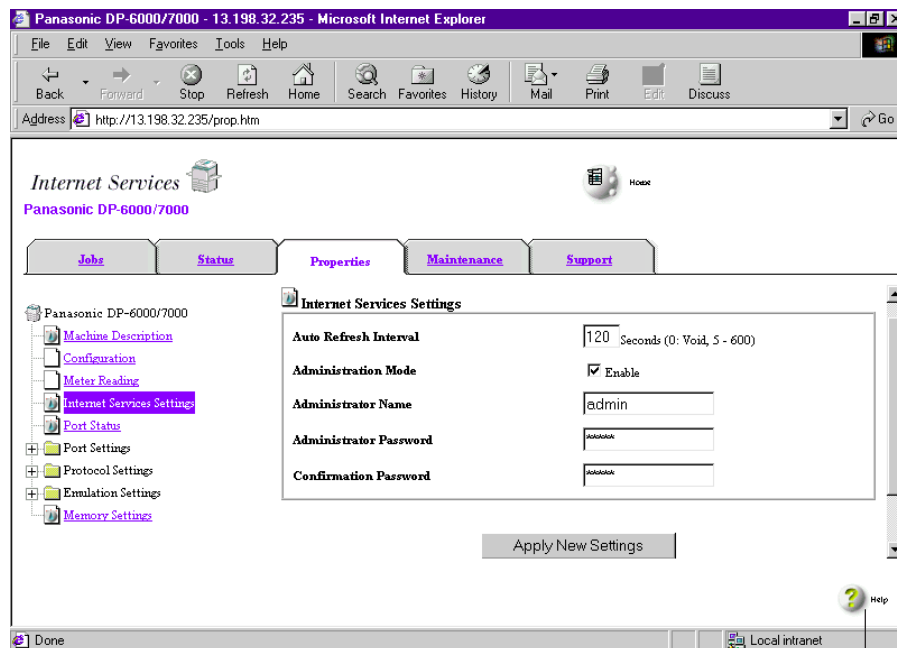
10.4 Activating Browser

The screen of the Internet Services is displayed.



10.4.2 Help

For details on the items of each screen, click **Help** to check.



Help

The background of the page features a stylized, white line-art illustration on a gray background. On the right side, there is a large, simplified outline of a printer. To the left of the printer, there are stylized mountains represented by jagged lines. Above the mountains, there are three small circles, likely representing the sun or moon. The overall style is minimalist and modern.

11

Setting Print Mode

11.1 Print Mode Operation.....	150
11.2 PCL 6 Settings	151



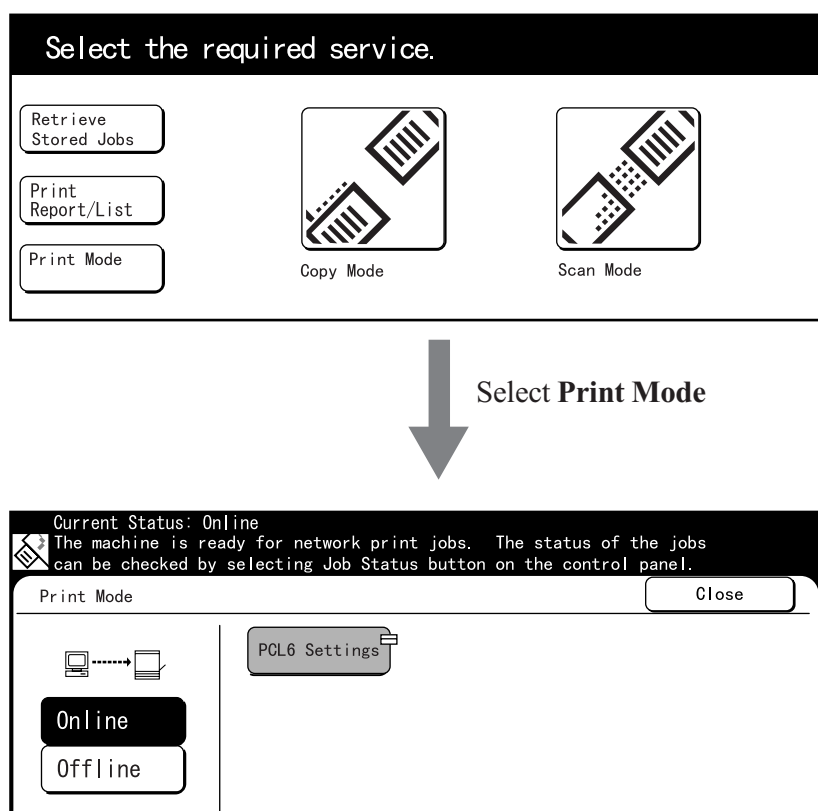
Print Mode Operation

You can define the PCL 6 settings in Print Mode. The settings can be changed during printing and will be reflected in the next job.

Use this mode to set default values for PCL 6 jobs. When you print using the printer driver, the parameters set by the driver will override those set here in the PCL 6 settings.

Print Mode can be used to switch the printer to **Offline**. When **Online** is selected, the printer is able to receive data. When **Offline** is selected, the printer will automatically assume the state of not being able to receive data. Data that is being transmitted will be disrupted and will not be printed.

(Menu screens)






PCL 6 Settings

This section explains the values that can be set in the PCL 6 Settings and the setting procedure.

11.2.1 List of PCL 6 Settings Items

Menu Item	Description
Paper Tray	<p>Sets the paper tray that supplies paper.</p> <p>Available options:</p> <ul style="list-style-type: none"> • Auto * • Tray 1 • Tray 3 • Tray 4 • Tray 5 (Bypass Tray) • Tray 6 (High Capacity) <p>Note  When Auto is selected, the various paper sizes in Output Size will be available. When any of the specific tray is selected, only Adjust to Specified Tray will be displayed in Output Size and no other options of paper size will be available for selection.</p>
Output Size	<p>Sets the paper size.</p> <p>Available options:</p> <ul style="list-style-type: none"> • A5 • B5 • A4 * • B4 • A3 • 8.5 × 11" • 8.5 × 13" • 8.5 × 14" • 11 × 17" • 5.5 × 8.5"
Output Destination	<p>Sets to output with printed page facing down.</p> <p>Available options:</p> <p>With the standard paper output device installed</p> <ul style="list-style-type: none"> • Output Tray * <p>With the optional Finisher installed</p> <ul style="list-style-type: none"> • Finisher Tray 1* • Finisher Tray 2
Output Orientation	<p>Sets the orientation for printing for PCL only.</p> <p>Available options:</p> <ul style="list-style-type: none"> • Portrait * • Landscape

* factory setting

11.2 PCL 6 Settings


Menu Item	Description
2 Sided Print	<p>Sets two-sided printing.</p> <p>Available options:</p> <ul style="list-style-type: none"> • Off * • On (with another set of options of Flip on Short Edge and Flip on Long Edge*)
Font	<p>Sets the font to be the default.</p> <p>Available options (00 - 80):</p> <ul style="list-style-type: none"> • 00 - CG Times - (CG Times) • 01 - CG Times It - (CG Times Italic) • 02 - CG Times Bd - (CG Times Bold) • 03 - CG Times BdIt - (CG Times Bold Italic) • 04 - Univers Md - (Univers Medium) • 05 - Univers MdIt - (Univers Medium Italic) • 06 - Univers Bd - (Univers Bold) • 07 - Univers BdIt - (Univers Bold Italic) • 08 - Univers MdCd - (Univers Medium Condensed) • 09 - Univers MdCdIt - (Univers Medium Condensed Italic) • 10 - Univers BdCd - (Univers Bold Condensed) • 11 - Univers BdCdIt - (Univers Bold Condensed Italic) • 12 - AntiqueOlv - (Antique Olive) • 13 - AntiqueOlv It - (Antique Olive Italic) • 14 - AntiqueOlv Bd - (Antique Olive Bold) • 15 - CG Omega - (CG Omega) • 16 - CG Omega It - (CG Omega Italic) • 17 - CG Omega Bd - (CG Omega Bold) • 18 - CG Omega BdIt - (CG Omega Bold Italic) • 19 - Garamond Antiqua - (Garamond Antiqua) • 20 - Garamond Krsv - (Garamond Kursiv) • 21 - Garamond Hlb - (Garamond Halbfett) • 22 - Garamond KrsvHlb - (Garamond Kursiv Halbfett) • 23 - Courier * - (Courier) • 24 - Courier It - (Courier Italic) • 25 - Courier Bd - (Courier Bold) • 26 - Courier BdIt - (Courier Bold Italic) • 27 - LetterGothic - (Letter Gothic) • 28 - LetterGothic It - (Letter Gothic Italic) • 29 - LetterGothic Bd - (Letter Gothic Bold) • 30 - Albertus Md - (Albertus Medium) • 31 - Albertus Xb - (Albertus Extra Bold) • 32 - Clarendon Cd - (Clarendon Condensed) • 33 - Coronet - (Coronet) • 34 - Marigold - (Marigold) • 35 - Arial - (Arial) • 36 - Arial It - (Arial Italic) • 37 - Arial Bd - (Arial Bold) • 38 - Arial BdIt - (Arial Bold Italic) • 39 - Times New - (Times New Roman) • 40 - Times New It - (Times New Roman Italic)

* factory setting




Menu Item	Description
Font (con't...)	<ul style="list-style-type: none"> • 41 - Times New Bd - (Times New Roman Bold) • 42 - Times New BdIt - (Times New Roman Bold Italic) • 43 - Symbol - (Symbol) • 44 - Wingdings - (Wingdings) • 45 - Line Printer - (Line Printer) • 46 - Times Roman - (Times Roman) • 47 - Times IT - (Times Italic) • 48 - Times Bd - (Times Bold) • 49 - Times BdIt - (Times Bold Italic) • 50 - Helvetica - (Helvetica) • 51 - Helvetica Ob - (Helvetica Oblique) • 52 - Helvetica Bd - (Helvetica Bold) • 53 - Helvetica BdOb - (Helvetica Bold Oblique) • 54 - CourierPS - (CourierPS) • 55 - CourierPS Ob - (CourierPS Oblique) • 56 - CourierPS Bd - (CourierPS Bold) • 57 - CourierPS BdOb - (CourierPS Bold Oblique) • 58 - SymbolPS - (SymbolPS) • 59 - Palatino Roman - (Palatino Roman) • 60 - Palatino It - (Palatino Italic) • 61 - Palatino Bd - (Palatino Bold) • 62 - Palatino BdIt - (Palatino Bold Italic) • 63 - ITCBookman Lt - (ITC Bookman Light) • 64 - ITCBookman LtIt - (ITC Bookman Light Italic) • 65 - ITCBookmanDm - (ITC Bookman Demi) • 66 - ITCBookmanDm It - (ITC Bookman Demi Italic) • 67 - HelveticaNr - (Helvetica Narrow) • 68 - HelveticaNr Ob - (Helvetica Narrow Oblique) • 69 - HelveticaNr Bd - (Helvetica Narrow Bold) • 70 - HelveticaNrBdOb - (Helvetica Narrow Bold Oblique) • 71 - N C Schbk Roman - (New Century Schoolbook Roman) • 72 - N C Schbk It - (New Century Schoolbook Italic) • 73 - N C Schbk Bd - (New Century Schoolbook Bold) • 74 - N C SchbkBdIt - (New Century Schoolbook Bold Italic) • 75 - ITC A G Go Bk - (ITC Avant Garde Gothic Book) • 76 - ITC A G Go BkOb - (ITC Avant Garde Gothic Book Oblique) • 77 - ITC A G Go Dm - (ITC Avant Garde Gothic Demi) • 78 - ITC A G Go DmOb - (ITC Avant Garde Gothic Demi Oblique) • 79 - ZapfC MdIt - (ITC Zapf Chancery Medium Italic) • 80 - ZapfDingbats - (ITC Zapf Dingbats)

* factory setting

11.2 PCL 6 Settings

Menu Item	Description
Symbol Set	<p>Sets the specific set of symbols provided by a font with each symbol set defined with a specific application in mind.</p> <p>Available options (35 altogether):</p> <ul style="list-style-type: none"> • ROMAN-8 * - (Roman 8) • ISO L1 - (ISO 8859-1) (Latin 1) • ISO L2 - (ISO 8859-2 Latin 2) • ISO L5 - (ISO 8859-9 Latin 5) • ISO L6 - (ISO 8859-10 Latin 6) • PC-8 - (PC-8) • PC-8 DN - (PC-8 DN) • PC-775 - (PC-775) • PC-850 - (PC-850) • PC-852 - (PC-852) • PC-1004 - (PC-1004) (OS/2) • PC-8 TK - (PC Turkish) • WIN L1 - (Windows 3.1 Latin 1) • WIN L2 - (Windows 3.1 Latin 2) • WIN L5 - (Windows 3.1 Latin 5) • DESKTOP - (DeskTop) • PS TEXT - (PS Text) • MC TEXT - (MC Text) • MS PUB - (Microsoft Publishing) • MATH-8 - (Math 8) (HP Math 8) • PI FONT - (Pi Font) (HP Pi Font) • LEGAL - (Legal) (HP Legal) • ISO-4 - (ISO 4) (United Kingdom) • ISO-6 - (ISO 6) (ASCII) • ISO-11 - (ISO 11) (Swedish:names) • ISO-15 - (ISO 15) (Italian) • ISO-17 - (ISO 17) (Spanish) • ISO-21 - (ISO 21) (German) • ISO-60 - (ISO 60) (Norwegian, v.1) • ISO-69 - (ISO 69) (French) • WIN 3.0 - (Windows 3.0 Latin 1) • WINBALT - (Windows Baltic) • SYMBOL - (Symbol) • WINGDINGS - (Wingdings)
Point Size	<p>Sets the height of the font.</p> <p>Available options: 4.00 to 50.00 in increments of 1.00 or 0.25 (12.00*).</p> <p>Note  The point size item available depends on the font source and font number selected.</p>

* factory setting

Menu Item	Description
Pitch	<p>Sets the pitch of the font in character per inch. Available options: 6.00 to 24.00 in increments of 1.00 or 0.01 (10.00*).</p> <p>Note  • <i>Pitch is the horizontal spacing of a fixed-space (bitmap or scalable) font in terms of number of characters per inch. This characteristic is ignored when selecting a proportionately-spaced (bitmap or scalable) font but is saved in the font select table and available when fixed spaced font is selected.</i></p>
Form Lines	<p>Sets the lines of text within a page. Available options: 5-128 lines (64*).</p>
Maximum No. of Sets	<p>Sets the number of output sets. Available options: 1*-999 sets.</p> <p>LOOK  • <i>When there is a specific number of output from the host device, this value can be displayed and printed out. Also, it can be changed on the setting of the operator panel. However, number of specified output from Netware and lpd cannot be changed to the operator panel.</i></p> <ul style="list-style-type: none"> • <i>If there is instruction from the host device regarding the number of output copy, that value will be reflected and printed.</i> • <i>However, for number of output copy specified by Netware and lpd port, the value of the control panel will not be overwritten after printing.</i>
Image Enhancement	<p>Enable or disable image enhancement. Image enhancement is to raise the resolution and to produce smooth print of sharp edges. Available options:</p> <ul style="list-style-type: none"> • On * • Off
Hex Dump	<p>Turns on/off the Hex (adecimal) Dump mode. Turning on the Hex Dump mode allows data that is sent to the printer in plain ASCII format. Available options:</p> <ul style="list-style-type: none"> • On • Off * <p>Note  • <i>Turning on the Hex Dump mode allows data that is sent to the printer to be printed in plain ASCII format. It will not be interpreted by the emulation. Hex Dump is used for troubleshooting.</i></p> <ul style="list-style-type: none"> • <i>Hex Dump is supported in the Parallel, LPD and Netware interfaces.</i>

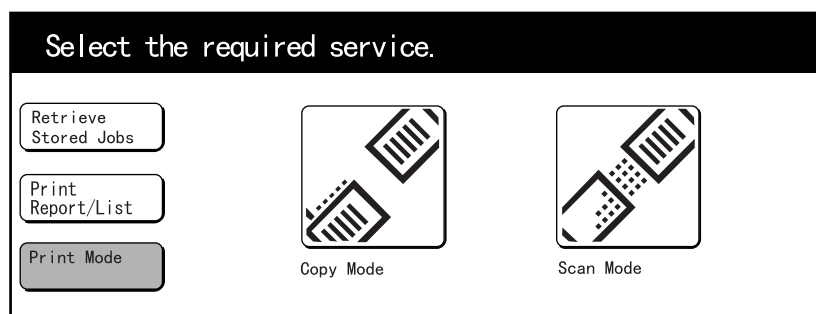
* factory setting

11.2.2 Setting Procedure

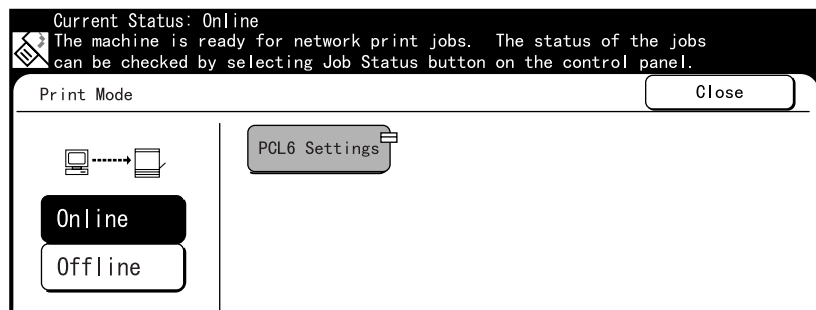
This section describes the setting procedure of PCL 6 Settings by using the illustration of setting **Paper Size** to **A3**.

Procedure

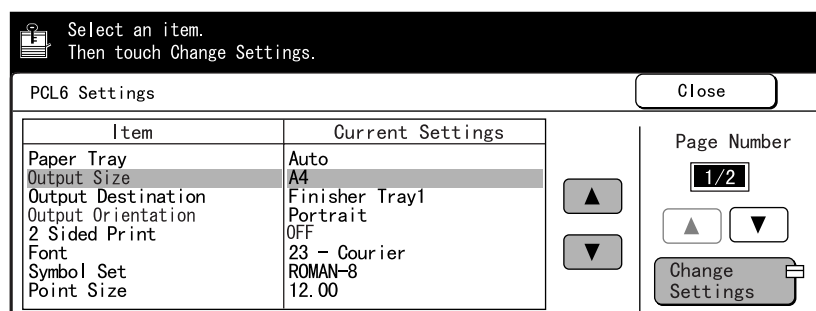
- 1 Select **Print Mode** from the menu screen.



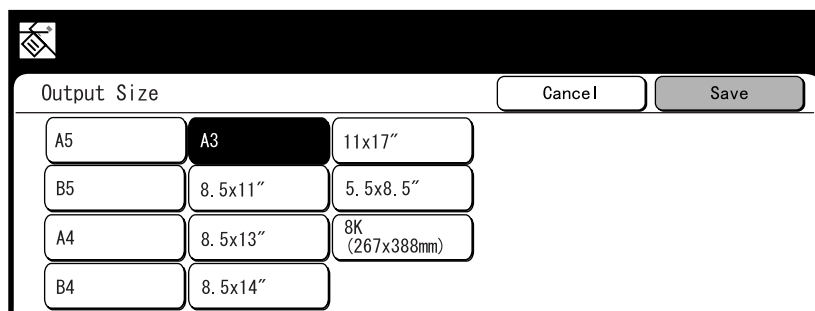
- 2 Touch **PCL6 Settings**.



- 3 Select the PCL 6 Settings item, **Paper Size**, by touching ▼ until it is selected or by touching the item itself and then touch **Change Settings**.



- ④ Select **A3** and then touch **Save**.



Output Size			Cancel	Save
A5	A3	11x17"		
B5	8.5x11"	5.5x8.5"		
A4	8.5x13"	8K (267x388mm)		
B4	8.5x14"			

- ⑤ Select **Close** until the menu screen appears.

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12

Printing Reports/Lists

12.1 Types of Reports/Lists	160
12.2 How to Print Report/List	180



Types of Reports/Lists

12.1.1 Types and Paper Sizes

This section explains the types of reports/lists that can be printed and the necessary paper sizes for printing them.

••• Types

Besides printing data sent from the host computers, the printer is also equipped to print the following reports/lists:

- Printer Settings List
- Job History Report
- Error History Report
- PCL Settings List
- PCL Fonts List
- PostScript Fonts List
- Print Meter Report
- PostScript Settings List
- Stored Print Job List



Note *The PostScript Fonts List and PostScript Settings List are available only when the optional PostScript Software kit is installed.*

••• Paper sizes

To print these reports/lists, it will be print in 8.5 x 11 in. size. To change the paper size, please contact to your local authorized Panasonic Service Representative.

12.1.2 Printer Settings List

●●● About Printer Settings List

Prints the information in the system menu.

●●● Printing result

The following items will be included in the list:

- System Settings
- Printer Settings
- Communication Settings

The result of the printing is shown on the next page.

12.1 Types of Report/List

WORKiO DP-6000/7000 Printer Settings List

Date/Time : 2001/05/17 16:48

Page : 1

System Settings

Machine Information	
Product Name	Panasonic DP-6000/7000
Serial Number	650026
Machine Code	NM100012
ROM	
Standard ROM	Ver 0.8.2
PostScript®ROM	Ver 0.8.0
Options	
Hard Disk	
Total Size	11513.19MB
User Area	3837.73MB
Mailbox	3837.73MB
Scanner Hard Disk	
Scanner Memory	10MB
High Capacity Feeder	
Finisher	
PostScript®	
Maintenance	
Job History Report Auto Print	Off
Print 2 Sided Report	1 Sided
Printable Area	Standard

Printer Settings

General	
No. of Prints	4390 pages
Page Description Language (PDL)	PCL 6 Ver 4.1
	PostScript®3™ Ver 3011.106
Fonts	81 PCL fonts
	136 PostScript European fonts
Memory	
Total Size	96.00MB
Print Page Buffer	54.26MB
PostScript®Memory	4.50MB
PCL Memory	5.00MB
Receive Buffer	
Parallel	256 KB
EtherTalk	256 KB
LPD	Spool Off: 64KB
SMB	Hard Disk Spool
Paper Tray Attributes	
Paper Size/Orientation	
Tray 1	A4, Portrait
Tray 2	A5, Portrait
Tray 3	B5, Portrait
Tray 4	8.5x11", Landscape
Tray 6	8.5x14", Landscape
	A3, Landscape
	8.5x11", Portrait
Output Settings	

Paper Switch

Use Bigger Size

Communication Settings

Ethernet Settings	
Connection Type	Auto (10BASE-T/100BASE-TX)
MAC Address	08:00:37:0A:62:FD
TCP/IP	
Obtain IP Address From	Manually Set
IP Address	13.198.32.235
Subnet Mask	255.255.252.0
Gateway Address	0.0.0.0
Status	Ready
WINS	
Obtain Address from DHCP	Off
Primary WINS Server Address	0.0.0.0
Secondary WINS Server Address	0.0.0.0
DNS	
Obtain Address from DHCP	Off
Domain Name	""
SNMP	
Port Status	Enabled
Transport Protocol	UDP
Internet Services	
Port Status	Enabled
Parallel	
Port Status	Enabled
Print Mode	Auto
PJL	On
Adobe Communication Protocol	Standard
Auto Eject Time	30 seconds
Bi-directional Communication	Enabled
NetWare	
Port Status	Disabled
LPD	
Port Status	Enabled
Print Mode	Auto
PJL	On
TBCP Filter	Enabled
IP Address Restriction	Off
Connection Time-Out	16 seconds
Port Number	515
SMB	
Port Status	Enabled
Print Mode	Auto
PJL	On
Transport Protocol	TCP/IP, NetBEUI
TBCP Filter	Disabled
Workgroup	"WORKGROUP"
Host Name	"FX-0A62FD"

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NM100012: 650026
Sys Ver 0.8.2
PS Ver 0.8.0

12.1.3 Job History Report

●●● About Job History Report

It is possible to check whether the print and scan data sent from the computer is properly printed.

From the Tools Mode screen, you can decide whether to print out the job history report automatically whenever there are more than 50 items of print data.

Even if the job history report is set to be printed out automatically, it is possible to print it with the latest print jobs (maximum 50) from the Menu screen>**Print Report/List**.

●●● Printing result

Up to 50 of the latest print jobs will be printed in the job history report. The following items will be included in the list:

- Date
- Time
- Input
- Output
- Job Info
- Page Info
- Pages
- Sheets
- Job Status



- *The print log is basically printed chronologically but the printing sequence can be changed when cancelling jobs or executing jobs with short processing time.*
- *If you want the print log to be printed out automatically when there are 50 jobs, see "Chapter 13 Configuring by the Tools Mode Screen" for the setting method.*
- *The print log will disappear if the memory is initialized.*

The following items may be printed in the "Job Status" column:

Job Status	Remarks
Out of Page Buffer	Cause: As printer is out of page buffer, print data cannot be processed. Treatment: Carry out one of the following treatments: <ul style="list-style-type: none"> • install more memory • increase the page buffer
PDL Auto Switch Fail	Cause: Printer language cannot be automatically selected when the printer mode is set to Auto. Treatment: Fix the selection of the printer language by the touch panel display or command.

12.1 Types of Report/List

Printing Content	Remarks
PJL Syntax Error	Cause: A PJL command syntax error has occurred. Treatment: Check the printer settings or correct the PJL command.
Print LANG Not Installed	Cause: An uninstalled printer language is specified. Treatment: Look at the Printer Settings List to check if the specified printer language is installed.
Scan Data Repository ERR	Cause: DNS is not set or DNS address is not correctly set. Treatment: Check whether the DNS address is correctly set. Or use the IP address to set the scan data repository address.
Invalid IP Address-DHCP Expired	Cause: The IP address set at DHCP is no more effective. Treatment: Check the DHCP environment or set the IP address at the printer.
Out of PCL Memory	Cause: As the printer is out of PCL memory, printing cannot be processed. Treatment: Increase the PCL memory setting.
PCL Command Error	Cause: A PCL command error has occurred. Treatment: Check the print data.
Max. User Number Exceeded	Cause: It is detected that the user number for Security Print and Sample Set documents has exceeded 200 (maximum). Treatment: Delete documents or users that are no more in use, and then print again.
Template Syntax ERR	Cause: A job template syntax error for scanning is detected. Treatment: Specify other correct job template or recreate another job template.
PostScript LANG Interpret ERR	Cause: A PostScript error has occurred. Treatment: Check the print data.
PCL Memory Low, Page Simplified	Cause: Lossy compression. Job is very complex, display list takes up too much memory, decomposer will perform lossy compression. Job can still be printed but image cannot be guaranteed. Treatment: Increase the PCL memory and print again.

The result of the printing is shown on the next page.

WORKIO DP-6000/7000

Job History Report

Date/Time : 2001/06/01 14:51

Page : 1

Date	Time	Input	Output	Job Info	Page Info	Pages	Sheets	Job Status
2001/05/18	19:58:02	Report/List	Finisher Tray 2	1 Sided	8.5 x 11"	2	2	Completed
2001/05/18	21:30:41	Report/List	Finisher Tray 2	1 Sided	8.5 x 11"	1	1	Completed
2001/05/21	09:39:36	PS Initialise	Output Tray				0	Completed
2001/05/21	09:39:51	Report/List	Finisher Tray 1	1 Sided	8.5 x 11"	2	2	Completed
2001/05/21	09:41:26	PS Initialise	Output Tray				0	Completed
2001/05/21	09:42:46	PS Initialise	Output Tray				0	Completed
2001/05/21	09:43:04	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	09:43:32	Report/List	Finisher Tray 1	1 Sided	8.5 x 11"	4	4	Completed
2001/05/21	09:52:13	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	09:53:02	LPD-LAY:Kaneko-Yoshifumi	Finisher Tray 1	1 Sided:PostScript	8.5 x 11"	2	2	Completed
2001/05/21	09:59:09	LPD-LAY:Kaneko-Yoshifumi	Finisher Tray 1	1 Sided:PostScript	8.5 x 11"	2	2	Completed
2001/05/21	10:04:35	Report/List	Finisher Tray 1	1 Sided	8.5 x 11"	27	27	Completed
2001/05/21	10:24:41	LPD-LAY:Kaneko-Yoshifumi	Output Tray	PIL		0	0	Job Cancelled
2001/05/21	10:27:20	PS Initialise	Output Tray				0	Completed
2001/05/21	10:27:31	LPD-LAY:Kaneko-Yoshifumi	Finisher Tray 1	1 Sided:PIL	8.5 x 11"	2	2	Completed
2001/05/21	10:37:03	LPD-LAY:Kaneko-Yoshifumi	Finisher Tray 1	2 Sided:PCL	8.5 x 11"	2	1	Completed
2001/05/21	10:40:42	LPD-LAY:Kaneko-Yoshifumi	Finisher Tray 1	1 Sided:PostScript	8.5 x 11"	2	2	Completed
2001/05/21	16:09:55	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	16:31:18	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	17:50:28	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	17:59:52	LPD-LAY:Kaneko-Yoshifumi:Microsoft Word - N1	HD-Finisher Tray 1	1 Sided:PIL	8.5 x 11"	1	1	Completed
2001/05/21	18:00:40	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	18:01:44	LPD-LAY:Kaneko-Yoshifumi:Microsoft Word - N1	HD-Finisher Tray 1	1 Sided:PIL	8.5 x 11"	1	1	Completed
2001/05/21	18:02:25	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/21	18:03:03	LPD-LAY:Kaneko-Yoshifumi:Microsoft Word - N1	HD-Finisher Tray 1	1 Sided:PIL	8.5 x 11"	1	1	Completed
2001/05/21	18:03:19	LPD-LAY:Kaneko-Yoshifumi:Microsoft Word - N1	HD-Finisher Tray 1	1 Sided:PIL	8.5 x 11"	1	1	Completed
2001/05/21	18:03:37	Report/List	Finisher Tray 1	2 Sided	8.5 x 11"	2	1	Completed
2001/05/22	17:16:16	Report/List	Finisher Tray 1	1 Sided	8.5 x 11"	1	1	Completed
2001/05/23	21:51:26	Report/List	Finisher Tray 1	1 Sided	8.5 x 11"	2	2	Completed
2001/05/25	14:35:14	Report/List	Output Tray			0	0	Job Cancelled

Sys Ver.09.1

12.1.4 Error History Report

●●● About Error History Report

Prints information related to printer errors.

●●● Printing result

The Error History Report will display up to 50 of the latest errors.
The following items will be printed:

- Date
- Time
- Error Code
- Error Type

The result of the printing is shown on the next page.

WORKiO DP-6000/7000

Error History Report

Date/Time : 2001/06/01 14:37

Date	Time	Error Code	Error Type
2001/03/12	16:02:33	016-342	S/W Fail
2001/03/13	16:08:42	016-318	Trap Fail
2001/03/13	16:09:28	016-318	Trap Fail
2001/03/19	17:56:24	016-318	Trap Fail
2001/03/21	10:15:12	008-900	IOT Static Jam
2001/03/28	13:08:09	008-156	REGI Gate SNR Off Jam
2001/03/28	13:08:53	016-318	Trap Fail
2001/03/28	13:12:33	016-318	Trap Fail
2001/03/28	13:13:53	016-318	Trap Fail
2001/03/30	10:19:08	008-900	IOT Static Jam
2001/04/02	13:48:07	016-318	Trap Fail
2001/04/02	14:55:06	016-318	Trap Fail
2001/04/02	15:41:44	016-318	Trap Fail
2001/04/05	13:15:28	008-900	IOT Static Jam
2001/04/05	16:04:15	008-900	IOT Static Jam
2001/04/06	09:57:53	016-377	PSW Service Mode In Fail
2001/04/09	14:51:54	008-123	HCF Pre Miss Feed Jam
2001/04/09	14:53:59	008-124	HCF Pre REGI SNR MH On Jam
2001/04/09	14:55:14	008-123	HCF Pre Miss Feed Jam
2001/04/09	14:57:47	016-394	Function Call Error
2001/04/09	15:01:29	008-124	HCF Pre REGI SNR MH On Jam
2001/04/09	15:28:04	016-394	Function Call Error
2001/04/09	16:11:29	016-394	Function Call Error
2001/04/09	17:18:23	016-341	Multiple ROM DIMM Mismatch
2001/04/10	18:52:25	008-900	IOT Static Jam
2001/04/10	19:00:56	008-900	IOT Static Jam
2001/04/11	11:04:08	016-394	Function Call Error
2001/04/11	11:06:32	016-394	Function Call Error
2001/04/11	12:51:12	016-394	Function Call Error
2001/04/11	13:31:41	010-106	Fuser Exit SNR Off Jam
2001/04/11	18:13:59	008-124	HCF Pre REGI SNR MH On Jam
2001/04/20	10:07:13	016-377	PSW Service Mode In Fail
2001/04/21	19:07:44	016-394	Function Call Error
2001/04/23	13:57:16	016-394	Function Call Error
2001/04/23	13:59:00	016-394	Function Call Error
2001/04/23	15:25:11	016-394	Function Call Error
2001/04/23	17:58:33	016-318	Trap Fail
2001/04/23	17:58:34	016-342	S/W Fail
2001/04/23	18:18:28	016-341	Multiple ROM DIMM Mismatch
2001/05/09	13:12:45	010-111	Exit Sensor Off Jam
2001/05/09	16:43:03	012-900	FIN Static Jam
2001/05/09	16:47:26	012-900	FIN Static Jam
2001/05/17	20:30:41	008-900	IOT Static Jam
2001/05/17	20:30:52	016-394	Function Call Error
2001/05/17	20:31:41	016-394	Function Call Error
2001/05/17	20:32:29	016-394	Function Call Error
2001/05/17	20:35:18	016-394	Function Call Error
2001/05/17	20:39:47	016-394	Function Call Error
2001/05/17	20:40:32	016-394	Function Call Error
2001/05/21	09:28:18	016-341	Multiple ROM DIMM Mismatch

Sys Ver 0.9.1

12.1.5 PCL Settings List

●●● About PCL Settings

Prints the PCL settings of the printer

●●● Printing result

The following items will be printed:

- Paper Tray
- Output Size
- Paper Size
- Output Destination
- Output Orientation
- 2 Sided Print
- Binding Edge
- Font
- Symbol Set
- Font Size
- Font Pitch
- Form Lines
- Vertical Motion Index
- Number of Sets
- Image Enhancement
- PCL Mode

The result of the printing is shown on the next page.

WORKiO DP-6000/7000
PCL Settings List

Date/Time : 2001/05/03 10:12

PCL Settings	
Paper Tray	Auto
Output Size	8.5 x 11"
Paper Size (Bypass Tray)	8.5 x 11"
Output Destination	Finisher Tray 1
Output Orientation	Portrait
2 Sided Print	Off
Binding Edge	Flip on Long Edge
Font	Courier
Symbol Set	Roman 8
Font Size	12.00
Font Pitch	10.00
Form Lines	64
Vertical Motion Index	200
Number of Sets	1
Image Enhancement	On
PCL Mode	Normal

12.1.6 PCL Fonts List

●●● About PCL Fonts List

Prints the list of PCL fonts that are resident in the printer.

●●● Printing result

The result of the printing is shown on the next page.

WORKio DP-6000/7000
PCL Fonts List

Date/Time : 2001/05/03 10:14
Page : 1

Fonts applicable to PCL		Sample
European	CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Times It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Times Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Times BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers Md	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers MdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers MdCd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers MdCdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers BdCd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Univers BdCdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	AntiqueOlv	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	AntiqueOlv It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	AntiqueOlv Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Omega	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Omega It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Omega Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	CG Omega BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	GaramondAntiqua	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Garamond Krsv	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Garamond Hlb	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	GaramondKrsvHlb	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Courier It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Courier Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Courier BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	LetterGothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	LetterGothic It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	LetterGothic Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Albertus Md	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Albertus XBd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Clarendon Cd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Coronet	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Arial	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Arial It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Arial Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Arial BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Times New	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Times New It	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Times New Bd	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Times New BdIt	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
	Symbol	ABXΔEΦΓΗΙΘΚΑβγδεφγηηκ0123456789

12.1.7 PostScript Fonts List

●●● About PostScript Fonts List

Prints the list of PostScript fonts that are resident in the printer.

●●● Printing result

The result of the printing is shown on the next page.

PostScript® Fonts List

Date/Time: 2001/05/03 10:14:22
Page: 1

[illegible]

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12.1.8 Print Meter Report

●●● About Print Meter Report

Prints the number of pages printed and the number of sheets of paper used for printing for each job owner. Also prints the total number of pages printed as well as the total number of sheets of paper used.

●●● Printing result

The following items will be printed:

- Job Owner
- Pages
- Sheets

The result of the printing is shown on the next page.

WORKiO DP-6000/7000
Print Meter Report

Date of Initialisation : 2001/05/21 09:28
Date of Printing : 2001/06/01 18:05
Page : 1(Last Page)

Job Owner	Pages	Sheets
Hanie	2	1
PORU	3	3
Sakurada-Yuuichirou	3	3
Yamada-Hanako	2	1
abceefghijklmnopqrstuvwxyz	2	2
michiko\PANDA	2	2
UnknownUser	0	0
Report/List	15	15
Total	29	27

Note: Pages refers to the number of sides printed on paper and Sheets refer to the number of sheets of paper used.
For example, when you print a 2-page document with 2-sided printing, the number of pages and number of sheets will be counted as 2 and 1 respectively.

12.1.9 PostScript Settings List

●●● About PostScript Settings List

Prints the list of logical printers with their PostScript settings.



The list printed out is named "PostScript Logical Printer List".

●●● Printing result

The following items will be included in the list:

- Format
- Option
- Print Control

The result of the printing is shown on the next page.

WORKIO DP-6000/7000

PostScript® Logical Printer List

Date/Time : 2001/06/01 17:17
Page : 1

Logical Print Number	No. 1	No. 2	No. 3	No. 4	No. 5
Format					
Output Size	11 x 17"	8.5 x 14"	8.5 x 11"	8.5 x 11"	8.5 x 11"
Paper Tray	Auto	Tray 1	Tray 2	Tray 3	Tray 4
Option					
2 Sided Print	1 Sided Print	Flip on Long Edge.	Flip on Short Edge.	Not Selected	1 Sided Print
Output Destination	Finisher Tray 1	Finisher Tray 2	Not Selected	Finisher Tray 1	Finisher Tray 2
Stapling	None	Top Left	Top Right	Bottom Left	Bottom Right
Punching	None	Top	Right	Left	Not Selected
Print Control					
Job Offset	None	Offset Per Set	Offset Per Job	Not Selected	None
Tray 5 (Bypass) - Paper Wait	Off	On	Not Selected	Off	On
Collate	Off	On	Not Selected	Off	On
Image Enhancement	Off	On	Not Selected	Off	On
Print Quantity Setup	PostScript	Task/JCL	Logical Printer Settings	Not Selected	PostScript
No. of Sets	1 set(s)	999 set(s)	99 set(s)	998 set(s)	555 set(s)

Sys Ver 010.0
PS Ver 010.0

12.1.10 Stored Print Job List

●●● About Stored Print Job List

Prints information about the mailbox size, Secured Print and Sample Set jobs.

●●● Printing result

The following items will be included in the list:

Mailbox Size

- Size Used
- Free Space

Secured Print/Sample Set

- User ID
- Document Name
- Document Size
- Stored Date
- Pages

The result of the printing is shown on the next page.

WORKiO DP-6000/7000
Stored Print Job List

Date/Time : 2001/06/11 14:38
Page : 1(Last Page)

Mailbox Size
Size Used 0.1MB
Free Space 1392.9MB

Secured Print				
User ID	Document Name	Document Size	Stored Date	Pages
hiro1	8.5 x 11"	8.5 x 11"	2001/06/07 13:08	1
kaneko	test	8.5 x 11"	2001/06/08 15:12	2

Sample Set				
User ID	Document Name	Document Size	Stored Date	Pages
hiro1	8.5 x 11"	8.5 x 11"	2001/06/07 13:16	1
hiro1	8.5 x 11"	5.5x8.5"	2001/06/07 13:18	1
hiro1	8K	8K	2001/06/07 13:19	1



How to Print Report/List

This section explains how to print report/list by illustrating the printing of PCL Fonts List.

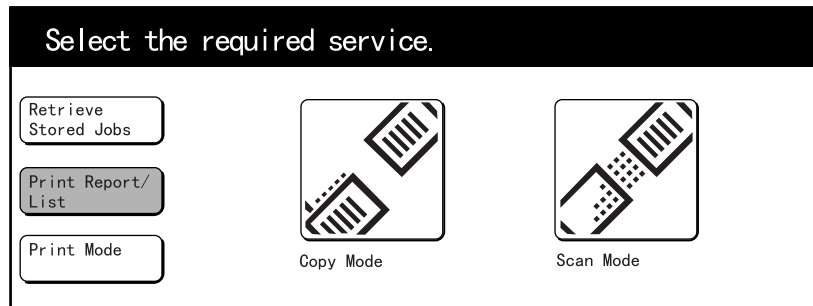
Procedure

- ① When the menu screen is not displaying anything, press the "Menu" button on the control panel.

Menu



- ② Select **Print Report/List**.

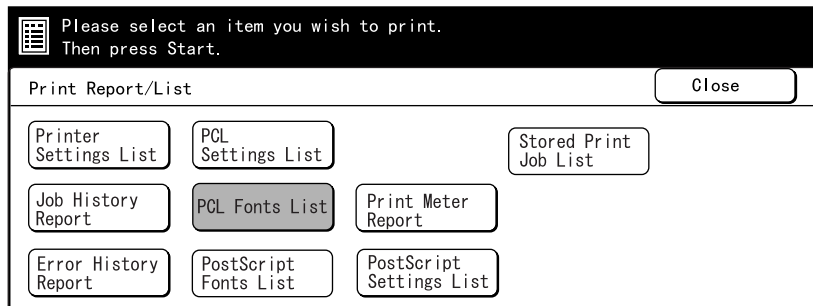


- ③ Select **PCL Fonts List** on the screen and press the **Start** button on the control panel.

The PCL Fonts List will be printed.



When there are other jobs waiting, the message "Job Wait" will be displayed. In this case, printing will start once the jobs that are in queue are completed.





13

Configuring by the Tools Mode Screen

13.1 Tools Mode	182
13.2 System/Meter Settings	184



Tools Mode

The Settings/Meter Check feature is for the system administrator to select the default value of features as well as to customise the features for use while using the Tools Mode screen.

This section explains the procedure to enter and exit the Tools Mode screen.

13.1.1 Displaying the Tools Mode Screen

The procedure to enter the Tools Mode screen is described here. You need the access number of the system administrator in order to operate the Settings/ Meter Check feature.

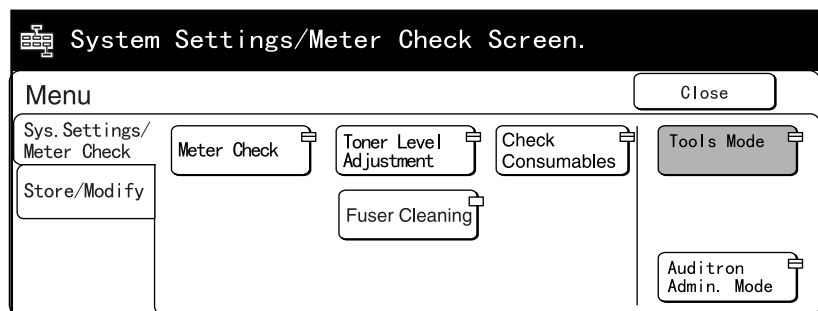
The factory setting of the access number is "11111".

Procedure

- 1 Press the **Settings/Meter Check** button on the control panel.



- 2 Select **Tools Mode** on the screen displayed.



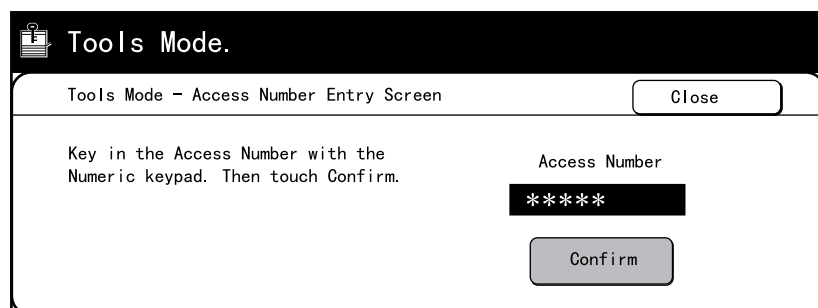
- 3 Enter the access number of the system administrator by using the numeric keypad and touch **Confirm**.



Press the Clear C button if you need to correct the input number.

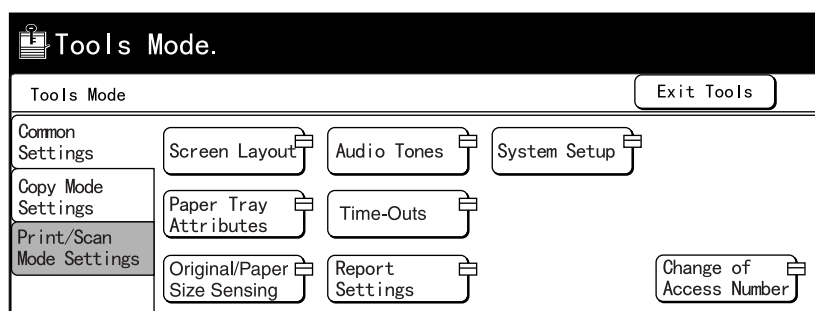


"Changing the access number of the administrator" of "6.3 Configuring the Machine with Tools Mode" of the Operating Instructions (For Copier).

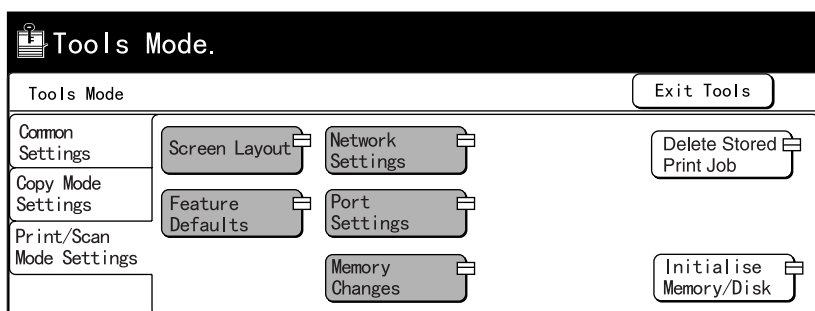


- ④ When you want to change the setting of any item of the copier and printer/scanner, select **Copy Mode Settings** and **Print/Scan Mode Settings** respectively.

Here, we select **Print/Scan Mode Settings** as an example.




- ⑤ Select the required item.



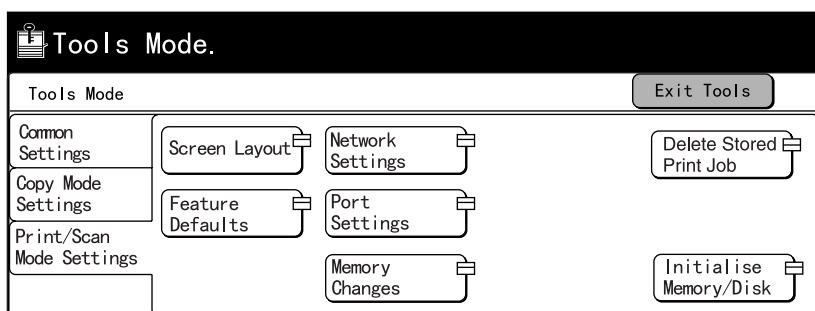
13.1.2 Exiting the Tools Mode Screen

You can return to the default screen by the following procedure after you have selected the required features.

Note  If "System Administration Mode Exit Timer" default is defined in Time-outs, the machine will exit the mode once the set time has elapsed and the default screen will be displayed. The factory setting is 10 minutes.

Procedure

- ① Select **Exit Tools** on the Tools Mode screen.





System/Meter Settings

This section describes the items that can be set in the Tools Mode screen and the setting procedure. Depending on the items, you can also make settings using the Internet Services. Refer to "Chapter 10 Using Internet Services" for details.

13.2.1 Common Settings

Menu Item	Description
Screen Layout	Sets the default screen when the power is switched on; when recovering from the power saver mode (sleep mode); or when restarting the machine. Available options: Menu, Copy Mode*, Scan Mode.
Paper Tray Attributes	Regardless of the settings in Tools Mode, the Auto Tray Switching (ATS) feature is always enabled when the machine is used as a printer. See "Paper Tray Attributes" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Original/Paper Size Sensing	See "Original/Paper Size Sensing" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Audio Tones	Items: <ul style="list-style-type: none"> • Scan Job Complete Tone The tone when a scan job is completed without error. Available options: Off, Soft, Normal*, Loud. • Print Job Complete Tone The tone when a print job is completed without error. Available options: Off, Soft, Normal*, Loud. For details on other items, see "Audio Tones" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Time-Outs	Items: <ul style="list-style-type: none"> • Set Date Sets the present date (Year/Month/Day). Available options: Year (2000-2099), Month (1-12), Day (1-31). The date set here will be printed on the list and report. • Set Time Sets the present time (Hours : Minutes). Available options: Hours (1-12 AM/PM or 0-23), Minute (00-59). • Copy Job Complete Timeout Sets the time required for the machine to return to the default settings after a copy job is completed. Available options: 1-59 seconds, 1-10 minutes, Disable (2 minutes*). • Job Program Incomplete Sets the time required for the machine to return to the default settings after the last selection of a button. Available options: 7-59 seconds, 1-10 minutes, Disable (2 minutes*).

*factory setting

Menu Item	Description
Time-Outs (con't...)	<ul style="list-style-type: none"> • Auto Resume Sets the time required for the machine to start the job automatically if the job is not resumed by the user within the specified time. Available options: 1-59 seconds, 1-10 minutes, Disable (2 minutes*). • Print Start Sets the time required for the machine to start printing automatically after the last selection of a button. Available options: 1-59 seconds, 1-10 minutes (30 seconds*). • System Admin. Mode Exit Timer Sets the time required for the machine to exit System Administration Mode automatically after the last selection of a button. Available options: 10-60 minutes (in 1 minute increment), Disable (10 minutes*). • Auto Power Saver Timer Sets the power saver timer (Last Selection to Low Power Mode + Low Power Mode to Sleep Mode). Available options for Last Selection to Low Power Mode: 1-240 minutes. Available options for Low Power Mode to Sleep Mode: 1-239 minutes, Disable. Total time entered must be within 6-240 minutes (15 minutes + 45 minutes*).
Report Settings	<p>Item:</p> <ul style="list-style-type: none"> • Job History Report A feature to automatically print information (job history) about print and scan jobs that have been executed. Available options: Do not print*, Print automatically. When it is set to Print automatically, print jobs that have not been automatically printed previously will be printed automatically when their number reaches 50. Print jobs that are being executed or waiting to be executed will not be recorded.
System Setup	<p>Items:</p> <ul style="list-style-type: none"> • Sleep Mode Sets whether to enable or disable the machine to automatically enter Sleep mode during Power Save mode. Available options: Enable*, Disable. • Copy: Maximum No. of Sets Sets the maximum number of sets allowed for a copy job. Available options: 1-999*. • Copy: Output Sets (Collated) Sets how the copies should be delivered when Collated has been selected for Copy Output. Available options: Auto*, Face Up. • Copy: Size Mismatch Warning Sets whether to display a warning message when the machine detects that the document size/orientation is different from the selected paper size/orientation. Available options: No, Yes*, Auto Correct. If No is selected, copies will be made based on the user selections. If Auto Correct is selected, copies will be made with Image Rotation set to OFF.

* factory setting

13.2 System/Meter Settings




Menu Item	Description
System Setup (con't...)	<ul style="list-style-type: none">• Print Mode: Paper Switch Sets whether or not to print when there is no paper in the machine that matches the selected paper size for the print job. Available options: Cancel Job, Use Bigger Size*. If Cancel Job is selected, the machine will cancel the print job. If Use Bigger Size is selected, the machine will select the next bigger paper size.• Print: Single-page Job Output Sets how a print job with single-page output is to be delivered. Available options: Face Up, Face Down*.• Print Mode: Printable Area Select whether to create the output image on the standard area (area excluding a 4 mm width from all sides of the paper) or extended area (area excluding a 2 mm width from all sides of the paper). Available options: Standard*, Extended.• Scan Mode: Edge Erase Sets the width of the edges from all four sides of the paper when scanning. Available options: Top & Bottom Edges (0* - 50 mm), Left & Right Edges (0* - 50 mm).• Output to Finisher Select whether to enable or disable copies from being delivered to the Finisher when the paper size has been changed to a larger one in the middle of a print job. Available options: Enable, Disable*.
Change of Access Number	See step 5 to 6 of the procedure of "Changing the access number of the administrator" of "6.3 Configuring the Machine by using Tools Mode" of the Operating Instructions (For Copier).

13.2.2 Copy Mode Settings

Menu Item	Description
Screen Layout	See "Screen Layout" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Feature Defaults	See "Feature Defaults" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Image Quality	See "Image Quality" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
Original Size Defaults	See "Original Size Defaults" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).
R/E Presets	See "R/E Presets" of "6.1 List of Custom Preset Functions" of the Operating Instructions (For Copier).

* factory setting

13.2.3 Print/Scan Mode Settings

Menu Item	Description
Screen Layout	See "2.6 Custom Presets for Scanning Features" of the Operating Instructions (For Scanner).
Feature Defaults	See "2.6 Custom Presets for Scanning Features" of the Operating Instructions (For Scanner).
Network Settings	<p>Items:</p> <ul style="list-style-type: none"> • Ethernet Board Setting Sets the Ethernet interface type. Available options: 10BT/100BTX AUTO*, 100Base-TX, 10Base-T. • TCP/IP: IP Address Select whether to obtain the necessary information (IP address, subnet mask, gateway address) for using the TCP/IP protocol from the DHCP server automatically or manually. Check with the network system administrator for the value to specify. Displayed as "aaa.bbb.ccc.ddd" where aaa, bbb, ccc, ddd are each a 3-digit value of 000 - 255. However, "aaa" cannot be 127 or any number from 224-255. Available options: Auto Obtain (DHCP), Auto Obtain (BOOTP), Specify Address. <ul style="list-style-type: none"> Note  <i>The IP address can be set when any of the interface cards (TCP/IP of LPD, SMB, Salutation, FTP Client, Agent: Start UDP, Internet Service) using TCP/IP is activated.</i> LOOK  <ul style="list-style-type: none"> • When a wrong IP address is set, the whole network might be adversely affected. • This machine does not support Classless Inter Domain Routing (CIDR). Hence, even if the subnet mask is set to "255.255.240.0", it will still activate as "255.255.255.0". • TCP/IP: Subnet Mask Sets the necessary subnet mask for using the TCP/IP protocol. Displayed as "aaa.bbb.ccc.ddd" where aaa, bbb, ccc, ddd are each one of the following values: 000, 128, 192, 224, 240, 248, 252, 254, 255. However, the bits in the middle cannot be set to 0. Check with the network system administrator for the value to specify. <ul style="list-style-type: none"> LOOK  <i>This machine does not support Classless Inter Domain Routing (CIDR). Hence, even if the subnet mask is set to "255.255.240.0", it will still activate as "255.255.255.0".</i> • TCP/IP: Gateway Address Sets the necessary gateway address for using the TCP/IP protocol. Displayed as "aaa.bbb.ccc.ddd" where aaa, bbb, ccc, ddd are each a 3-digit value of 000 - 255. However, "aaa" cannot be 127 or any number from 224-255. Check with the network system administrator for the value to specify. Define this setting only when it is necessary to set the gateway address. In environments where the gateway address can be set dynamically, there is no need to define the setting.

* factory setting

13.2 System/Meter Settings





Menu Item	Description
Network Settings (con't...)	<ul style="list-style-type: none"> TCP/IP: DNS Server Sets the IP address of the Domain Name System (DNS) server when asked to see the DNS while using the TCP/IP protocol. Displayed as "aaa.bbb.ccc.ddd" where aaa, bbb, ccc, ddd are each a 3-digit value of 000 - 255. However, "aaa" cannot be 127 or any number from 224-255. Check with the network system administrator for the value to specify. Agent: IPX Start Up Defines the setting of the agent which uses IPX as a protocol of the transport layer. Available options: Off*, On. Agent is necessary when using SNMP software with which you can manage multiple printers from a distance. The printer information is controlled by this agent and the SNMP software will collect the printer information from the agent. When you use SNMP software in the NetWare environment, activate the agent by IPX. Agent: UDP Start Up Defines the setting of the agent which uses UDP as a protocol of the transport layer. Available options: Off, On*. Agent is necessary when using SNMP software with which you can manage multiple printers from a distance. The printer information is controlled by this agent and the SNMP software will collect the printer information from the agent. <div> <div>Note</div> <p><i>If UDP is set to On when the IP address is not set, the IP address setting screen will be displayed. Set the IP address using this screen. At this point, if the IP address is not set using this screen, Agent: UDP Start Up will be forcibly set to Off.</i></p> </div> Agent: Community String Specifies the community name for enabling the settings from the SNMP software to this machine. Input no more than 12 characters from A-Z, 0-9 and space. <div> <div>Note</div> <p><i>Community String will be displayed when Agent: IPX Start Up or Agent: UDP Start Up is set to ON.</i></p> </div> IPX/SPX Setting Sets the operation frame type of IPX/SPX or the type of Token Ring. Options available depend on whether the Ethernet card or Token Ring card is installed. Available options when the Ethernet card is installed: <ul style="list-style-type: none"> AUTO* : Sets automatically the frame type. Ethernet II : Uses the Ethernet II specification frame type. Ethernet 802.3 : Uses the IEEE 802.3/802.2 specification frame type. Ethernet 802.2 : Uses the IEEE 802.2 specification frame type. Ethernet SNAP : Uses the IEEE 802.3/802.2/SNAP specification frame type. Available options when the Token Ring card is installed: <ul style="list-style-type: none"> Auto Token Ring Token Ring SNAP <div> <div>Note</div> <p><i>IPX/SPX setting will be displayed when Agent: IPX Start Up, IPX/SPX of Transport or NetWare: Port Status of NetWare is set to On.</i></p> </div>

* factory setting




Menu Item	Description
Network Settings (con't...)	<ul style="list-style-type: none"> • Token Ring: Transmit Rate Sets the transmit rate of the Token Ring. Available options: <ul style="list-style-type: none"> • Auto* • 4 Mbps • 16 Mbps • 100 Mbps This item is available for selection when the Token Ring is installed. • Token Ring: Max Packet Size Sets the maximum packet size of the Token Ring. Available options: <ul style="list-style-type: none"> • 1500 Bytes* • 2088 Bytes • 4472 Bytes • 8232 Bytes This item is available for selection when the Token Ring is installed. • Token Ring: Source Routing Sets the source routing setting. Available options: <ul style="list-style-type: none"> • No • Yes* This item is available for selection when the Token Ring is installed.
Port Settings > Parallel	<p>To be set when using the parallel port.</p> <p>Items:</p> <ul style="list-style-type: none"> • Port Status Defines the setting of the parallel port when the power is on. Available options: Disable, Enable*. See ••• The note items at the end of this tabulation of print/mode settings. • Print Mode Sets the print mode. Available option: Auto*, PCL, PostScript. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*. • Auto Eject Time Sets the time to automatically print and output any remaining data in the printer when it is in a continuous state of not receiving data. Available options: 5-1275 seconds in increments of 5 seconds (30 seconds*). • Adobe Communication Protocol Can be set when the optional PostScript software kit is installed. Available options: Standard*, Binary, TBCP. • Bi-directional Communication Sets the bidirectional communication setting. Available options: Disable, Enable*.

* factory setting

13.2 System/Meter Settings


Menu Item	Description
Port Settings > SMB	<p>To be set when using the SMB port.</p> <p>Items:</p> <ul style="list-style-type: none"> • Port Status Define the setting of the SMB port when the power is on. Available options: Disable, Enable*.  <i>The note items at the end of this tabulation of print/mode settings.</i> • Transport Protocol Define the setting of the transport protocols, TCP/IP and NetBEUI. Available option for TCP/IP: On*, Off. Available option for NetBEUI: On*, Off. • Print Mode Sets the print mode. Available option: Auto*, PCL, PostScript. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*. • TBCP Filter Define the setting of the TBCP Filter when the optional PostScript software kit is installed. Available options: Disable*, Enable.
Port Settings > NetWare	<p>To be set when using the Netware port.</p> <p>Items:</p> <ul style="list-style-type: none"> • Port Status Define the settings of the NetWare port when the power is on. Available options: Disable*, Enable.  <i>The note items at the end of this tabulation of print/mode settings.</i> • Transport Protocol Define the setting of the transport protocols, TCP/IP and IPX/SPX. Available option for TCP/IP: On, Off*. Available option for IPX/SPX: On*, Off. • Print Mode Sets the print mode. Available option: Auto*, PCL, PostScript. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*. • TBCP Filter Define the setting of the TBCP Filter when the optional PostScript software kit is installed. Available options: Disable*, Enable.
Port Settings > LPD	<p>To be set when using the LPD port.</p> <p>Items:</p> <ul style="list-style-type: none"> • Port Status Define the settings of the LPD port when the power is on. Available options: Disable, Enable*.  <i>The note items at the end of this tabulation of print/mode settings.</i>  <i>If LPD is set to Enable when the IP Address is set to Specify Address, the IP Address setting screen will be displayed. Enter the IP Address using the displayed screen.</i>

* factory setting


Menu Item	Description
Port Settings > LPD (con't...)	<ul style="list-style-type: none"> • Print Mode Sets the print mode. Available option: Auto*, PCL, PostScript. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*. • TBCP Filter Define the setting of the TBCP Filter when the optional PostScript software kit is installed. Available options: Disable, Enable*. • Connection Time-Out Define the time-out. Available options: 2 - 3,600 sec (16 sec*).
Port Settings > EtherTalk	<p>Items:</p> <ul style="list-style-type: none"> • Port Status Define the setting of the EtherTalk port when the power is on. Available options: Disable*, Enable.  <i>The note items at the end of this tabulation of print/mode settings.</i> • Print Mode Sets the print mode. Available option: PostScript*. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*.
Port Settings > Salutation	<p>Item:</p> <ul style="list-style-type: none"> • Port Status Sets the salutation port when using the network scanner driver and the mailbox viewer. Available options: Disable*, Enable.  <i>This port uses the salutation protocol meant for the communication between the Panasonic network scanner driver and the mailbox viewer. It is not guaranteed to work when connected to any other salutation protocol.</i>
Port Settings > FTP Client	<p>Item:</p> <ul style="list-style-type: none"> • Port Status Sets the FTP Client port. Available options: Disable*, Enable.
Port Settings > Internet Service	<p>Item:</p> <ul style="list-style-type: none"> • Port Status Define the setting of the Internet Service port when using Internet Service. Available options: Disable, Enable*.  <i>The note items at the end of this tabulation of print/mode settings.</i>

* factory setting

13.2 System/Meter Settings

Menu Item	Description
Port Settings > IPP	<p>Items:</p> <ul style="list-style-type: none"> • Port Status Define the setting of the IPP port when the power is on. Available options: Disable*, Enable. ... The note items at the end of this tabulation of print/mode settings. • Print Mode Sets the print mode. Available option: Auto*, PCL, PostScript. • PjL Switch Sets the PjL commands sent from the host device to valid or invalid. Available options: Off, On*. • TBCP Filter Define the setting of the TBCP Filter when the optional PostScript software kit is installed. Available options: Disable*, Enable. • Access Control Available options: Disable*, Enable. • DNS Available options: Disable*, Enable. • Add Port Number Available options: 80, 0, 8,000 - 8,999 (in increments of 1 unit) • Connection Time-Out Available options: 0 - 65,535 sec (in increments of 1 sec)
Memory Changes	<p>Items:</p> <ul style="list-style-type: none"> • Parallel Receive Buffer • NetWare Receive Buffer • AppleTalk Receive Buffer Sets the memory capacity of the receive buffer for the respective interfaces. Receive buffer is the temporary storage location of the data sent from the PC. The memory capacity of the buffer can be changed according to the status and objective of the usage. The increase of memory capacity for the buffer can speed up the release of the host device of each interface. Available memory capacity: 64 KB - 1024 KB in increments of 32 KB (256 KB*). • LPD Spool The maximum memory capacity may change according to the free memory space. • SMB Spool Sets the memory capacity of the LPD Spool and SMB Spool. There are three parts of the LPD Spool and SMB Spool: (1) Off (non-spool mode) During LPD processing from a PC, data from other PCs cannot be received. There is a receive buffer meant for LPD use. Available memory capacity: 64 KB - 1024 KB in increments of 32 KB (256 KB*). <p>The maximum memory capacity may change according to the free memory space.</p>

* factory setting

Menu Item	Description
Memory Changes (con't...)	<p>(2) Memory (spool mode): There is a receive buffer for spooling. Available memory capacity: 0.50 MB - 32.00 MB in increments of 0.25 MB (0.50 MB*).</p> <p>The maximum memory capacity may change according to the free memory space.</p> <p>(3) Hard Disk* (spool mode) There is a receive buffer for spooling.</p> <ul style="list-style-type: none"> • IPP Spool Sets the memory capacity of the IPP Spool. There are two parts of the IPP Spool: (1) Off (non-spool mode) Available memory capacity: 64 KB - 1024 KB in increments of 32 KB (256 KB*). (2) Hard Disk* (spool mode) There is a receive buffer for spooling. • PCL Memory Sets the memory capacity for the use of PCL 6. The printing speed may be increased when the memory capacity is increased. When printing documents with large amounts of data, the resolution might decrease. Increasing the memory capacity might prevent a decrease of resolution. Available memory capacity: 2.50-32.00 MB in increments of 0.25 MB (5.0 MB*). <p>LOOK </p> <ul style="list-style-type: none"> • When the Port Status of the port is set to Disable, the item corresponding to the port will not be selectable. • Depending on the data volume sent from the computer, the releasing time for the computer may not be changed even if the memory capacity is increased. • After removing the RAM module and switching on the power, the following process will be executed automatically if memory becomes insufficient compared with the previous memory setting: (1) Change and allocate the setting values of the various memories (e.g. Receive buffer memory). (2) If allocation in (1) is not possible, set the status of port related to Ethernet to Disable and reallocate. • When increasing the memory capacity of the receive buffer, either disable the port status of the port not in use or install the RAM module. • Error code (086-701 or 086-705) may be displayed after memory changes. Simply press the Job Status ► Stop button on the control panel and you can continue using the machine. • All data stored in each of the memory capacity will be cleared if system is reset.

* factory setting

13.2 System/Meter Settings

Menu Item	Description
Memory Changes (con't...)	<ul style="list-style-type: none"> • PostScript Memory Sets the memory capacity for the use of PostScript. The printing speed may be increased when the memory capacity is increased. Available memory capacity: 4.50-32.00 MB in increments of 0.25 MB (4.5 MB*).
Delete Stored Print Job	Delete stored print jobs listed according to the types of print jobs: <ul style="list-style-type: none"> • Secured Print • Sample Print
Initialize Memory/Disk	Executes the initialization of NV memory and hard disk. It can also execute system reset. <ul style="list-style-type: none"> • Initialize Memory Executes initialization of NV memory. NV memory is the nonvolatile memory that maintains the printer setting contents even after the power has been switched off. • Initialize Print Meter Executes initialization of Print Meter memory. • All Hard Disks • Hard Disk Partition 1 • Hard Disk Partition 2 • Hard Disk Partition 3 Executes initialization of the hard disk or the hard disk partition 1-3

* factory setting



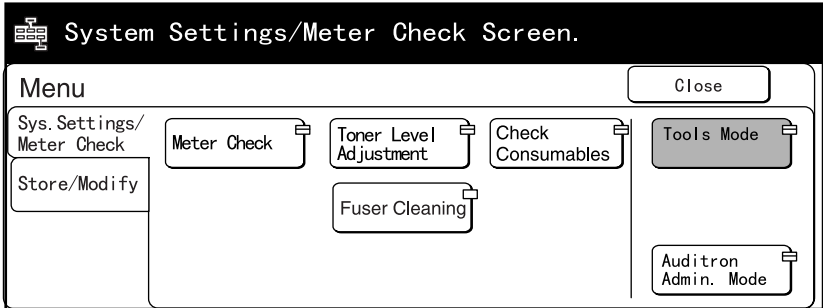
- If the distributed memory capacity cannot be maintained and memory becomes insufficient when the port status is at Enable, the following processes will be automatically executed:
A. Change and allocate the setting values of the various memories (e.g. Receive buffer).
B. If allocation in A is not possible, set the status of the Ethernet port to Disable and reallocate.
- When the interface board is installed, disable the port status of the port not in use.
- After removing the RAM module and switching on the power, the above process will be executed even if the memory becomes insufficient compared with the previous memory setting.

13.2.4 Setting Procedure

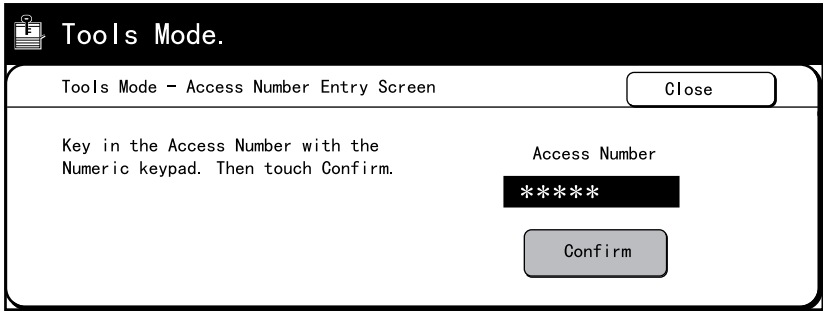
As an example, the procedure to enable the port status of LPD by the Print/Scan Mode Settings is explained here.

Procedure

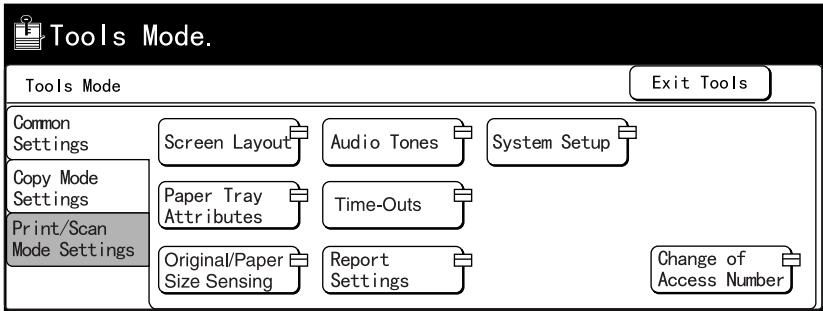
- 1 Press the **Settings/Meter Check** button on the control panel and select **Tools Mode** on the screen displayed.



- 2 Enter the access number of the system administrator by using the numeric keypad and touch **Confirm**.
The factory setting of the access number is "11111".

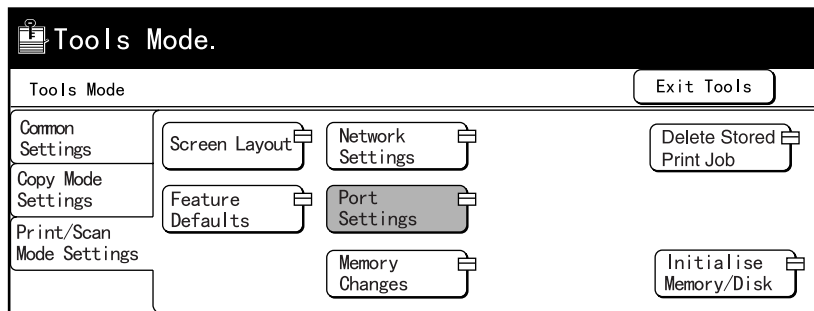


- 3 Select **Print/Scan Mode Settings**.

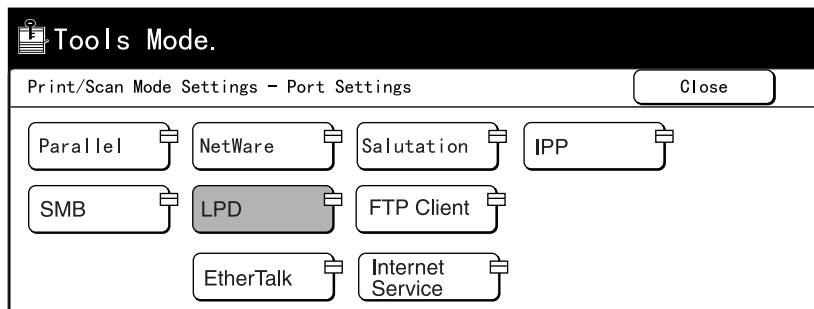


13.2 System/Meter Settings

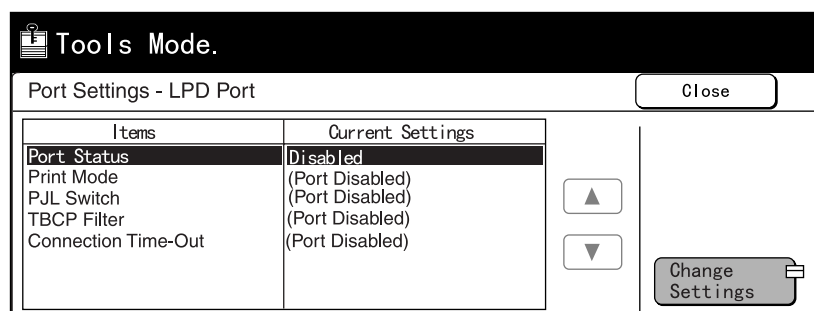
4 Select Port Settings.



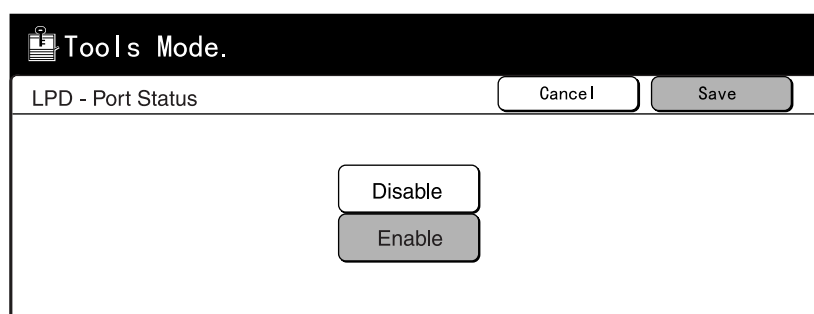
5 Select LPD.



6 Select Port Status and then touch Change Settings.



7 Select Enable.



8 Select Save.



14

Precautions and Limitations

14.1 In General.....	198
14.2 On Using NetWare	200
14.3 On Using TCP/IP (LPD)	203
14.4 On Using SMB	205



In General

This section explains the precautions and limitations of using this printer in general.

●●● When switching on/off power

- After you have turned off the power, wait at least two seconds before turning it on again. If not, it might lead to the breakdown of the hard disk and memory.
- Do not switch off the power during the following circumstances:
 - (1) When the Communicating indicator and the Job in Memory indicator are lighted up.

Reason:

 - The jobs stored in the memory might be cancelled.
 - As there is a possibility of the printer hard disk being accessed, the printer hard disk might not be usable after this.
 - (2) During the five-second interval after the message, "Ready to Copy" is displayed and the printer is set to online mode.

Reason:

 - As there is a possibility of the printer hard disk being accessed, the printer hard disk might not be usable after this.
- When "Printing" is displayed immediately after switching on the printer even no data have been sent, press the **Job Status ► Stop** button on the control panel to display the Job Status Confirm screen. Next, select jobs with "Printing" displayed, followed by **Stop**. Then press the **Clear C** button.

●●● When cancelling printing

When the printing is not allowed to end normally such as by cancelling printing, the command information sent from the host will not be reflected in the control panel.

●●● When initialized hard disk

- When the hard disk is initialized, all the data registered in it will be erased.

●●● When specifying multiple-copy printing instruction (sorting) for a document with more than 701 pages

The copies will be sorted to 700 pages each and then output.

●●● When using the collate feature for sorting multiple copies of printing

Collate Settings of the "Output Options" tab of the printer properties dialog box has been checked. However, when the collate feature in the print dialog box of applications like Microsoft Word 7.0 is selected, the desired print result may not always be obtainable. When this happens, uncheck the collate feature and print again.

●●● **When using the finisher with the puncher attached**

- Papers that have been punched or stapled are output to finisher tray 2.
- Do not remove any paper from finisher tray 2 when the printer is outputting paper to it.
- Once finisher tray 2 is full with paper, printing will stop.
When this happens, remove all paper from finisher 2. Printing will resume automatically.



On Using NetWare

This section explains the precautions and limitations of using this printer with NetWare.

14.2.1 Setting Printer

- If there is not enough memory after the port status is set to Enable, the display might display a message of the insufficient memory and the port status might be set to Disable automatically. When this happens, either set the port status of ports not in use to Disable or change the memory size, increasing the memory.
- Take note of the following limitations on the names:

Item	Limitation
Device Name	Use only half-width alphanumeric characters. Cannot use mathematical symbol (+ =), dot (.), backslash (\), tilde (~). There is no difference between underscore(_) and space(). ¹ There is no difference between the capital and small letters of half-width alphanumeric characters.
Tree	Use only half-width alphanumeric characters. Cannot use mathematical symbol (+ =), dot (.), backslash (\), tilde (~). There is no difference between underscore(_) and space(). There is no difference between the capital and small letters of half-width alphanumeric characters.
File Server Name	Use only half-width alphanumeric characters. Cannot use mathematical symbol (+ =), dot (.), backslash (\), tilde (~). There is no difference between underscore(_) and space(). ¹ There is no difference between the capital and small letters of half-width alphanumeric characters.
Context	Use only half-width alphanumeric characters. Cannot use mathematical symbol (+ =), dot (.), backslash (\), tilde (~). There is no difference between underscore(_) and space(). ² There is no difference between the capital and small letters of half-width alphanumeric characters.
Print Server Name	Use only half-width alphanumeric characters. Cannot use mathematical symbol (+ =), dot (.), backslash (\), tilde (~). There is no difference between underscore(_) and space(). ¹ There is no difference between the capital and small letters of half-width alphanumeric characters.

1: The following characters cannot be used in the present Netware file server when it is operating in bindery mode but in order to standardize the directory service and the limitations, there is no limitation at the printer without taking into consideration the type of operating mode:

semicolon(;), colon (:), asterisk (*), question mark(?), comma (,), double quotation ("), greater than/less than symbol (<>), bracket ([]), pipe (|)

2: Mathematical symbol (=) and dot (.) cannot be used as context and can be only used as delimiters.

14.2.2 Setting Server

●●● For NDS

Take note of the following when setting up environment in NDS:

Item	For Pserver Mode
No. of file server	Up to 16 servers per tree
No. of print queue	Up to 48 queues
No. of notifying candidates	Up to 48 users
No. of password characters	Up to 32 characters*

*: If 33 or more characters are used to set the password, printing cannot be carried out.

●●● For Bindery

Take note of the following when setting up environment in bindery:

Item	For Pserver Mode
No. of file server	Up to 16 servers per tree
No. of print queue	Up to 48 queues
No. of notifying candidates	Up to 48 users
No. of password characters	Up to 32 characters*

*: If 33 or more characters are used to set the password, printing cannot be carried out.


●●● Workload of Bindery reference queue (for directory service/Pserver mode)

This printer does not support bindery reference queue. As such, printing with bindery reference queue is not allowed.

14.2.3 During Printing

The following printer features are applicable when using NWADMIN or PCONSOLE:

Parameter	Port status
Interrupt Print Job	○
Stop Printer	○
Pause Printer	○
Activate Printer	○
Paper Edge mark	×
Form feed	×
Printer rewind	○
Mount paper	○
Stop print server	○

Note  • ×: Not supported; ○: supported

14.2.4 Using Token Ring Interface Port

- When the Token Ring interface port is installed, the MAC address will be changed.
- When using gateway in Token Ring environment, set Source Routing to Yes.

14.2.5 Others

To search for NetWare printer from SNMP applications, set Agent: IPX Start Up to On (factory setting: On) (Tools Mode > Print/Scan Mode Settings > Network Settings)



On Using TCP/IP (LPD)

Be aware of the following precautions and limitations when using the printer with the TCP/IP (lpd) protocol.

14.3.1 During Setup

●●● Setting up at the printer

- Be very careful in setting IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Depending on the network environment used, it may be necessary to set up the subnet mask and gateway. Consult your network administrator to set up the necessary items.
- If setting the port to **Enable** leads to insufficient memory, a message to that effect will be displayed on the control panel and the port status may be set to **Disable** automatically. When this happens, set the ports which are not in use to **Disable**, change the memory size, or install more memory.
- Specify the size for the receive buffer memory as required by the environment. If the size of the receive buffer memory is smaller than the file data to be received, the data may not be received.

●●● Setting up at the PC/workstation

- Be very careful in setting up IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Before setting any network (such as the IP address) to a host being used under Network Information Service (NIS), consult the NIS administrator.

14.3.2 During Switching Power On/Off

Take note of the following when switching off the printer:

●●● When LPD Spool is set to Memory (spool mode)

All the print data spooled to the printer memory, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found. However, if the printer is switched off immediately after the print data has been sent, the data may be stored on the PC. In this case, when it is switched on again, the stored print data will be printed first even if new print data has been specified.

●●● When LPD Spool is set to Hard Disk (spool mode)

All the spooled print data, including print data which is being printed, will be saved. When the power is switched on again, the stored print data will be printed first even if new print data has been specified.

14.3 On Using TCP/IP (LPD)

●●● When LPD Spool is set to Off (non-spool mode)

All the print data spooled to the printer receive buffer, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found.


However, if the power is switched off immediately after the print data has been sent, the data may be stored in the PC. In this case, when the power is switched on again, the stored print data will be printed first even if new print data has been specified.

14.3.3 During Printing

Take note of the following when printing:

●●● When LPD Spool is set to Hard Disk or Memory (spool mode)

If the print data is larger than the hard disk or the remaining memory capacity at the point of receiving data, the data will not be received by the printer.


Note  Some client computers may re-send immediately when the print data has exceeded the receiving capacity. When this occurs, the client computer appears as if it has crashed. To rectify this situation, the client computer must be stopped from sending print data.

●●● When LPD Spool is set to Off (non-spool mode)

The printer will process print data as soon as data is being received. If the printer has accepted a print request from a client computer, it will not receive another print request from another client computer.

●●● When the IP address or computer name is changed

When the IP address or computer name of a PC/workstation is changed, it may not be able to process enquiries or deletion requests from the printer correctly. Make sure the printer is free of all spooled data and then switch off/on the printer.

See  The function to stop/eject print data spooled to the printer spool can be setup from the control panel. Refer to "3.3 Cancelling Printing from Printer" and "3.4 Forced Out-putting" for information on the setup method.



On Using SMB

Be aware of the following precautions and limitations when using the printer with SMB.

14.4.1 During Setup

●●● Setting up the printer

- Be very careful in setting up IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Depending on the network environment used, it may be necessary to set up the subnet mask and gateway. Consult your network administrator to set up the necessary items.
- If setting the port to **Enable** leads to insufficient memory, a message to that effect will be displayed on the control panel and the port status may be set to **Disable** automatically. When this happens, set the ports which are not in use to **Disable**, change the memory size, or install more memory.
- Specify the size for the receive buffer memory (SMB spool) as required by the environment. If the size of the receive buffer memory (SMB spool) is smaller than the file data to be received, the data may not be received.

●●● Setting up the PC/workstation

- Be very careful in setting up IP addresses which are controlled as an entire system. Consult your network administrator before defining any IP address.
- Before setting any network (such as the IP address) to a host being used under Network Information Service (NIS), consult the NIS administrator.

14.4.2 During Switching Power On/Off

Take note of the following when switching off the printer:

●●● When SMB Spool is set to Memory (spool mode)

All the print data spooled to the printer memory, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found. However, if the printer is switched off immediately after the print data has been sent, the data may be stored on the host computer. In this case, when it is switched on again, the stored print data will be printed first even if new print data has been specified.

●●● When SMB Spool is set to Hard Disk (spool mode)

All the spooled print data, including print data which is being printed, will be saved. When the power is switched on again, the stored print data will be printed first even if new print data has been specified.

●●● When SMB Spool is set to Off (non-spool mode)

All the print data spooled in the printer receive buffer, including print data which is being output, will be deleted. When the printer is switched on again, the print data will not be found.

However, if the power is switched off immediately after the print data has been sent, the data may be stored in the host device. In this case, when the power is switched on again, the stored print data will be printed first even if new print data has been specified.

14.4.3 During Printing

Take note of the following when printing:

●●● When SMB Spool is set to Hard Disk or Memory (spool mode)

If the print data is larger than the hard disk or the remaining memory capacity at the point of receiving data, the data will not be received by the printer.



Some client computers may re-send immediately when the print data has exceeded the receiving capacity. When this occurs, the client computer appears as if it has crashed. To rectify this situation, the client computer must be stopped from sending print data.

●●● When SMB Spool is set to Off (non-spool mode)

The printer will process print data as soon as data is being received. If the printer has accepted a print request from a host computer, it will not receive another print request from another host computer.

●●● When the IP address or computer name is changed

When the IP address or computer name of a PC/workstation is changed, it may not be able to process enquiries or deletion requests from the printer correctly. Make sure the printer is free of all spooled data and then switch off/on the printer.



The function to stop/eject print data spooled to the printer spool can be setup from the control panel. Refer to "3.3 Cancelling Printing from Printer" and "3.4 Forced Out-putting" for information on the setup method.

●●● When printer is in offline mode

If the printer receives print request from a host device when it is in offline mode, it will not receive the data and an error message dialog box will be displayed on the host device. However, with SMB, print data will be sent from the host computer even in offline mode.

●●● Deleting jobs

For Windows NT 4.0, you cannot delete jobs if it is not installed with Service Pack 3 and above. If you delete jobs while the computer is receiving data, an error message will be displayed. When this happens, the Retry button on the error message is not effective.

15

Troubleshooting

15.1 When Problems Occur.....	208
15.2 When the Print Quality is Poor	212
15.3 Using the Direct Print Utility	216
15.4 Using NetWare	218
15.5 Using TCP/IP	223
15.6 Using SMB	225
15.7 Using Internet Services.....	228



When Problems Occur






Check the conditions of the printer again before treating it as a breakdown.

If messages are displayed, carry out treatment accordingly.




If the print quality is poor, proceed to "15.2 When the Print Quality is Poor" to carry out the appropriate treatment.


- ⚠ WARNING**
- *This printer uses precision parts and high voltage. Never open or remove machine covers that are secured with screws unless specifically instructed in the Operating Instructions (For Copier). A high voltage component can cause a shock hazard.*
 - *Do not try to alter the machine configuration, or modify any parts. An unauthorized modification can cause smoke or fire.*

Condition	Cause	Treatment
No power.	Are the printer breaker switch and power switch turned on?	Turn on the printer breaker switch and power switch.
	Is the power cord securely connected?	Turn off the power switch and check that the power cord is plugged in properly. Then turn on the power switch.
	Is the power voltage suitable?	Check that the power source is 120V, 15A; or 220-240 V, 7 A. Check that the power capacity matches the specified printer highest consumption power: 1.35 kW (120 V model) 1.20 kW (220-240 V model).
Cannot print.	Is the machine offline or in the setting mode of the Tools Mode screen?	Treat according to the displayed condition: <ul style="list-style-type: none"> • "Offline" <ul style="list-style-type: none"> Select Online from the Print Mode screen (Menu screen > Print Mode). • Others <ul style="list-style-type: none"> Exit the Tools Mode screen. <div> See ••• "Chapter 3 Useful Operations"; "Chapter 13 Configuring by the Tools Mode Screen" </div>
	Is there any message being shown on the display?	Treat according to the message displayed.

Condition	Cause	Treatment
Cannot print.	Is the interface cable securely connected?	Turn the switch off and check the interface cable connection.
	Is the interface card activated?	Check the port status of the interface.  <i>"Chapter 13 Configuring by the Tools Mode Screen"</i>
	When the printer and the host computers are connected by a parallel interface cable, the host computer is not responding to bidirectional communication.	By default, the bidirectional communication setting of the printer is set to ON. If the host computer is not responding to bidirectional communication, printing cannot be done. In this case, turn the bidirectional communication setting to OFF from the printer control panel and then print again.  <i>"Chapter 13 Configuring by the Tools Mode Screen"</i>
	Is the operating environment of the host computer correctly set?	Check the operating environment of the host computer such as the printer driver.
	Is the memory capacity enough?	Contact your authorized Panasonic representative to install additional memory.  <i>When the memory capacity is not enough, the printer will disable the interface automatically and reboot.</i>
Printing is done on a paper size different from the one specified in the printing instruction.	Is a different paper size being set?	Replace with the correct paper size and print again.  <i>Operating Instructions (For Copier)</i>
Cannot print although paper size has been set and printing instruction sent. The following message is also printed in the print history report: "APS Disabled (APS OFF or Machine Malfunction)".	1. Is Tools Mode>Common Settings>System Setup>Print Mode:Forced Print set to No (Cancel Print) ?	Set Print Mode:Forced Print to Yes (Change Size) . Once this is done, the paper tray with the closest paper size to the specified size will be selected for printing if there is no such size in the selected paper tray.
	2. Are all the trays in Tools Mode>Common Settings>Paper Tray Attributes>Trays for APS/ATS set to Disable ?	Set the paper tray to be used for APS (Auto Paper Selection) to Enable .  <i>"Chapter 13 Configuring by the Tools Mode Screen"</i>

15.1 When Problems Occur

Condition	Cause	Treatment
When printing color document, lines might not be printed.	Is the line set to the finest width?	From the "Graphics" tab of the printer properties dialog box, select Raster for Graphics Mode . Or from the application program, select a thicker width for the line or darken the color.
No printing is sent but display shows "Printing".	Is the power of the host computer turned on after the printer has been turned on?	Press the Job Status ► Stop button to display the Job Status Check screen. Select jobs with the "Printing" status. Then select Stop on the screen and press the Clear C button on the control panel.  <i>Note</i> Check that the power of the host device is switched on.
Poor print quality.	There might be an image error.	 See ••• "15.2 When the Print Quality is Poor"
Paper cannot be output.	Data is left in the machine.	Stop printing or force the remaining data to be output.  See ••• "3.3 Cancelling Printing from Printer"; "3.4 Forced Outputting"
The paper tray is stuck.	Has the cover been opened and the power switched off during printing?	Switch off the power without forcefully moving the paper tray. After a few seconds, switch it on. Check that the printer is in the state to receive data and then push in/pull out paper tray.
Error code 086-701 or 086-705 is displayed.	Has the Memory Changes setting been changed at the Tools Mode screen?	Press the Job Status ► Stop button.

Condition	Cause	Treatment
Output without stapling/punching despite stapling/punching instructions from the client.	Is the paper in the paper tray of the same size and orientation as that specified at the client?	When issuing double stapling (left/right/top) instruction to B5/A4/8.5 x 11" paper, the print job might be output without stapling/punching. When this happens, change the paper to a different orientation and from the Tools Mode screen, change the paper size.
	Has stapling/punching instructions been issued to documents of mixed sizes?	Documents of mixed sizes cannot be stapled/punched.
	Has stapling instructions been issued to more than 50 pages of paper?	Only 2-50 pages of paper can be stapled.
	Has stapling instructions been issued to just 1 page of paper.	
After paper of the wrong sizes in the paper tray have been replaced with the correct one, any printing specified to be output from the tray will result in paper jam. Or the message "Put in XX-sized paper" is displayed.	Have the paper size been specified by the Tools Mode screen?	When paper of a different size have been set in the paper tray, always specify the paper size by the Tools Mode screen.  <i>Operating Instructions (For Copier)</i>



When printing has not been correctly processed, the information will be saved in Job History Report.

When printing has not been processed, make use of the Job History feature to check the print processing condition. Print data that cannot be correctly processed might be discarded.



"12.2 How to Print Report/List" for details on how to print the Job History.








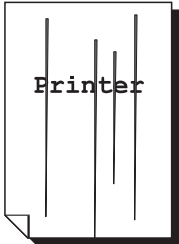



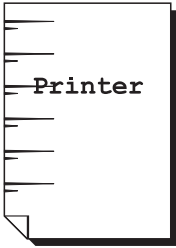

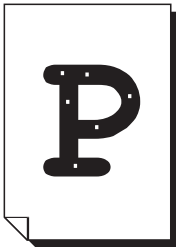







When the Print Quality is Poor

When the print quality is poor, carry out the necessary treatment according to the condition as close to those listed below as possible. When printing documents with large amount of data, the resolution might decrease. Increasing the PCL memory data might prevent a decrease of resolution.

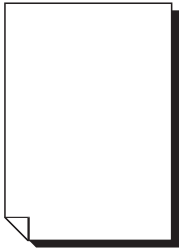







Also, depending on the application, things that are not visible on the screen might be printed and details might not be clearly printed. Increasing the PCL memory might solve this problem.

If the print quality does not improve after the treatment, contact your local authorized Panasonic service representative.





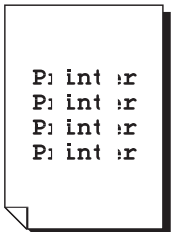





Condition	Cause	Treatment
Printing is not clear (faded, not sharp). 	The paper has excessive moisture.	Replace with new paper.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>
	The toner in the toner cartridge has been used up.	Replace with new toner cartridge.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>
Black spots printed. 	The paper used is not suitable.	Load the suitable paper.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>
Black spots printed. 	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>See</i> ••• <i>Operating Instructions (For Copier)</i>

Condition	Cause	Treatment
Stains at equal intervals 	The transportation route for the paper is stained.	Print a few more pages and send the job again.
	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>Operating Instructions (For Copier)</i>
White spots in the printed black portion. 	The paper used is not suitable.	Load the suitable paper.  <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>Operating Instructions (For Copier)</i>
Smudges when scrubbed with fingers. 	The paper has moisture.	Replace with a new paper.  <i>Operating Instructions (For Copier)</i>
	The paper used is not suitable.	Replace with suitable paper.  <i>Operating Instructions (For Copier)</i>
	The front cover is not completely closed.	Close the front cover.
Page is printed completely black. 	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  <i>Operating Instructions (For Copier)</i>
	May be due to high voltage problems.	Contact your local authorized Panasonic service representative

15.2 When the Print Quality is Poor

Condition	Cause	Treatment
Nothing is printed. 	Multiple sheets of paper are fed at once (double feeding).	Fan the paper and load it again.  ••• <i>Operating Instructions (For Copier)</i>
	The toner in the toner cartridge has been used up.	Replace with a new toner cartridge.  ••• <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is defective or damaged.	Replace with a new drum or toner cartridge.  ••• <i>Operating Instructions (For Copier)</i>
	May be due to high voltage problem.	Contact your local authorized Panasonic service representative.
	The paper has moisture.	Replace with new paper.  ••• <i>Operating Instructions (For Copier)</i>
Character void. 	The paper used is not suitable.	Replace with suitable paper.  ••• <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is not properly set.	Set the drum or toner cartridge properly.  ••• <i>Operating Instructions (For Copier)</i>


15.2 When the Print Quality is Poor

Condition	Cause	Treatment
Paper has wrinkles. Printing smeared. 	The paper used is not suitable.	Replace with suitable paper.  ••• <i>Operating Instructions (For Copier)</i>
	The paper used is from different reams.	Replace with suitable paper.  ••• <i>Operating Instructions (For Copier)</i>
	The paper has moisture.	Replace with new paper.  ••• <i>Operating Instructions (For Copier)</i>
Vertical white strips. 	The drum or toner cartridge is not correctly set.	Adjust and set it correctly.  ••• <i>Operating Instructions (For Copier)</i>
	The drum or toner cartridge is defective or damaged.	Replace with a new drum/toner cartridge.  ••• <i>Operating Instructions (For Copier)</i>
	Toner in the toner cartridge has been used up.	Replace with a new toner cartridge.  ••• <i>Operating Instructions (For Copier)</i>
Printing is slanted. 	The guide clips of the paper tray are not set in the correct positions.	Adjust and set the side guide and end guide correctly.  ••• <i>Operating Instructions (For Copier)</i>



Using the Direct Print Utility

This section provides information on the possible causes, status displays, verifying methods and recommended actions pertaining to errors which may occur when the printer is used with the Direct Print Utility.

Cause	Treatment	
	Status Display	Unable to print (Network Error)
The printer and the PC are connected to different networks.	Verification	Check with the system administrator of the network to verify that the network connecting the PC and that connecting the printer are linked by a router or a gateway.
	Action	Connect the printer directly to the network connecting the PC.
An error has occurred on the network between the PC and the printer. Connection cannot be established.	Status Display	Unable to print (Network Error)
	Verification	-
	Action	Ask the system administrator of the network to check the network for errors.
The IP address of the printer is entered wrongly.	Status Display	Unable to print (Network Error)
	Verification	From the printer window, select Properties from the "Printer" menu. Click the "Details" tab of the dialog box displayed. Then select Port Settings . Compare the IP addresses in the "FX TCP/IP DPU Port Setup" dialog box and the printer settings list.  <i>"12.1.2 Printer Settings List" for the way to output a printer settings list.</i>
	Action	Enter the correct IP address set at the printer, in the "FX TCP/IP DPU Port Setup" dialog box.
The printer is switched off after the print instruction has been sent from the PC. Or the print instruction is sent to the printer which is switched off.	Status Display	Unable to print (Network Error)
	Verification	Check whether or not the printer is switched on.
	Action	Switch on the printer.
Print instructions from multiple PCs are sent to the printer at the same time.	Status Display	Unable to print (Network Error)
	Verification	-
	Action	- (Printing will be reprocessed automatically.)
Printing files cannot be spooled due to insufficient disk capacity of the PC.	Status Display	Unable to print (Spool Error)
	Verification	Double-click My Computer and right-click the disk installed with Windows 95/98/Me (e.g. C-drive). Select Properties from the menu displayed and the check the free space available.
	Action	After erasing unnecessary files to increase the free space available, select Pause Printing from the "Document" menu of the "Printer" window to enable printing to restart.

Cause	Treatment	
The spool setting is not correct.	Status Display	- (The print processing cannot be completed and nothing will be printed)
	Verification	From the window of the printer, select Properties from the "Printer" menu. On the "Details" tab, check that FX TCP/IP DPU Port is displayed at Print to the following port . Click Spool Settings to display its dialog box. Check if the "Print directly to the printer" radio button is selected.
	Action	Change the spool setting by selecting any other radio button other than Print directly to the printer .



Using NetWare

This section provides information on the possible causes, verifying methods and recommended actions pertaining to errors which may occur when using the printer with NetWare.

15.4.1 The printer is not Printing

Cause	Verification	Action
The network component is not compatible with the auto setup of the frame type.	Check if the data link lamp of the network component board connected to the printer is on. Check if the frame type of file server in the network is similar.	From the printer, set up the frame type specified to the file server which you want to connect.
There is a breakdown in the network from the workstation to the printer.	Using NWADMIN from the workstation, check if the target printer object can be seen.*	Switch the network cable between the workstation and printer that cannot be used for transmitting.
The user name and group name are not registered in User of the print queue.	Using NWADMIN from the workstation, and referring to the target queue object, check if the user name and group name are registered in User*.	1. Re-send the print jobs to a print queue which is correctly registered with the user name or group name at User of Print Queue Information.
		2. Using NWADMIN from the workstation, register the user name and group name at User of Print Queue Information.*
Jobs cannot be sent to the print queue.	Using PCONSOLE, check if Yes is set up for "User can register with the queue" at the Current Queue Status of Print Queue Information.	Using PCONSOLE, set it to Yes.
Jobs cannot be sent to the print queue.	Using NWADMIN from the workstation, check if the operator flag is checked by Recognition of the target print queue.*	Using NWADMIN from the workstation, check if each item of the operator flag is checked by Recognition of the target print queue. *
The user name and group name are not registered in the print server user of the print server.	Using NWADMIN from the workstation, check if the user name and group name are registered with the User of the target print server.*	1. Re-send the print jobs to a print queue which is correctly registered with the user name or group name at User of Print Server Information.
		2. Using NWADMIN from the workstation, register the user name and group name at User of the target print server.*

Cause	Verification	Action
The print queue to which the job is sent is not assigned to the printer.	Using NWADMIN from the workstation, check if the target printer is assigned to the serviced printer in the list under User of the target print server.*	1. Re-send the job to a print queue registered with user name and group name at User of Print Server Information.* 2. Using NWADMIN from the workstation, check if the user name and group name are registered at User of the target print server.*
The print queue has exceeded the maximum number of supported queues of the printer (in the print server mode).	Using NWADMIN from the workstation, check if the desired print queue is assigned to the assigned print queue of the target print queue.*	Re-send the job to a print queue assigned to the printer.*
The slave file server is not set up (in the bindery service mode).	Using PCONSOLE from the workstation, check if the slave file server is registered in the Service NetWare Server by the print server of the Print Server Information. *	Using PCONSOLE from the workstation, reflect the setting parameter after having registered the slave file server.
The print type is incorrect.	Using PCONSOLE from the workstation, check if Printer: Parallel, Port: LPT1, Position: Auto mode (local) is defined for Printer Information > Printer > Printer xxx Environment . *	Using PCONSOLE from the workstation, set Printer: Parallel, Port: LPT1, Position: Auto mode (local) and reflect the parameter.*
The setting for the slave file server is incorrect (in the bindery service mode).	Using PCONSOLE from the workstation, check if the printer type has been set up as Defined at the Print Server Information > Printer > Printer xxx Environment Setting.*	If it is not Defined, change it to Defined and reflect the parameter.*
The paper number of the print job and that of the loaded paper are different.	Using PCONSOLE from the workstation, check if the first page paper number of the environment setting after selecting the target printer is similar to the job number.*	Using PCONSOLE from the workstation, make the first page paper number and job number similar in the target printer environment setting.*
Print job data format and workstation print environment setting are not similar.	-	When printing bindery-format file using PostScript language, enable TBCP at the printer. When using Windows at the workstation, set do not output Ctrl-D.
The level setting for the IPX checksum is incorrect.	At the console screen of the file server, execute a set command and check if the IPX checksum is set to level 2.	At the console screen of the file server, enter the following command and set the IPX checksum to level 0 or 1. set Enable IPX Checksum=X (X: 0 or 1)

15.4 Using NetWare

Cause	Verification	Action
The level setting for the NCP packet signature is incorrect.	At the console screen of the file server, execute a set command and check if the NCP packet signature is set to level 3.	At the console screen of the file server, enter the following command, and after setting the NCP packet signature to either level 0, 1 or 2, restart the file server: set NCP Packet Signature Option=X (X: 0, 1 or 2)
The default printer name is incorrect.	Print the Printer Settings List or output the Start Up Page. Check the lower six characters (3 bytes) of the MAC address.	1. Set up a printer name which uses the correct MAC address. 2. Set up any printer name except the default.
The directory tree name is not set.	Print the Printer Settings List and check if the tree name is specified.	Set the tree name.
Context is not set.	Print the Printer Settings List and check if the context is specified.	Set the context.
Connected to another printer object.	Using NWADMIN from the workstation, check if the object is correctly assigned by the layout information of the desired print server.*	1. Using the "PCL Printer Driver, Utilities & Documentation" CD-ROM from the workstation, set the file server name, tree, context, active mode correctly. 2. Using the "PCL Printer Driver, Utilities & Documentation" CD-ROM from the workstation, set another host name.
NetWare port cannot be activated.	Print the Printer Settings List.	Activate the NetWare port.
File server is down.	Search for the target file server in Network Neighborhood on Windows.	Activate the file server.
There are printers with similar host name on the network.	Switch off the printer, using NWADMIN from the station, check that the status of the concerned printer object is job waiting.	Using Internet Services from the workstation, set the file server name, tree, context, active mode is correctly set.
Network port is not activated.	Print the Printer Settings List, check if the network number when using IPX/SPX is at 00000000 (NetWare server down). Also, check if the IP address when using TCP/IP is at 0.0.0.0 (fixed IP not set or address supply server (DHCP) is down).	For IPX/SPX, activate NetWare. For TCP/IP, set the fixed IP address or activate the address supply server (DHCP).

* Refer to NetWare online documentation for details on the way to set and check.

15.4.2 When "Switch Off the Power" Appears

Cause	Verification	Action
An error occurs in the NetWare interface.	-	Switch Off, and then On the power.

15.4.3 Unable to Obtain Desired Print Results

Cause	Verification	Action
The print language of the print job and that setup at the printer are different.	Check the print language of the printer.	Set the same print language for the print job and the printer.

15.4.4 No Notification

This section provides information on the possible causes, verifying methods and recommended actions when there are no messages on the workstations which have been sent print instructions.

●●● No notification of printer errors

Cause	Verification	Action
Not registered in the Notify Candidate List of the print server.	Using PCONSOLE from the workstation, check if the user name and group name are registered in Print Server Information > Printer > Printer xxx Environment Settings > Notify.	Register the user name and group name in the Notify.

●●● No end-of-job notification


Cause	Verification	Action
When sending jobs from the workstation, the NOTIFY option has not been specified.	Check if the NOTIFY option is specified when jobs are sent.	When jobs are sent, specify the NOTIFY option.
The NetWare CASTOFF utility is executed on the workstation.	-	Execute the NetWare CASTON utility on the workstation.



Using TCP/IP

This section provides information on the possible causes, verifying methods and recommended actions pertaining to errors which may occur when the printer is used with TCP/IP (LPD).

15.5.1 When Using Windows 95/98/Me

Cause		
The printer and the PC are connected to different networks.	Status Display	Unable to print (Network Error)
	Verification	Check with the system administrator of the network to verify that the network connecting the PC and that connecting the printer are linked by a router or a gateway.
	Action	Connect the printer directly to the network connecting the PC.
An error has occurred on the network between the PC and the printer. Connection cannot be established.	Status Display	Unable to print (Network Error)
	Verification	-
	Action	Ask the system administrator of the network to check the network for errors.
The IP address of the printer is entered wrong.	Status Display	Unable to print (Network Error)
	Verification	From the printer window, select Properties from the "Printer" menu. Click the "Details" tab of the dialog box displayed. Then select Port Settings . Compare the IP addresses in the "FX TCP/IP DPU Port Setup" dialog box and the printer settings list.  <i>"12.1.2 Printer Settings List" for the way to output a printer settings list.</i>
	Action	Enter the correct IP address set at the printer, in the "FX TCP/IP DPU Port Setup" dialog box.
The printer is switched off after the print instruction has been sent from the PC. Or the print instruction is sent to the printer which is switched off.	Status Display	Unable to print (Network Error)
	Verification	Check whether or not the printer is switched on.
	Action	Switch on the printer.
Print instructions from multiple PCs are sent to the printer at the same time.	Status Display	Unable to print (Network Error)
	Verification	-
	Action	- (Printing will be reprocessed automatically.)
Printing files cannot be spooled due to insufficient disk capacity of the PC.	Status Display	Unable to print (Spool Error)
	Verification	Double-click My Computer and right-click the disk installed with Windows 95/98/Me (e.g. C-drive). Select Properties from the menu displayed and the check the free space available.
	Action	After erasing unnecessary files to increase the free space available, select Pause Printing from the "Document" menu of the "Printer" window to enable printing to restart.

15.5 Using TCP/IP

15.5.2 When Using Windows NT 4.0

●●● When the printer is not printing

Cause	Verification	Action
Incorrect IP address.	Ask the network administrator to check that the IP address is correct.	Set up the correct IP address for the printer.
If LPD spool is set to memory, the print data sent by the user in a single print instruction has exceeded the upper limit of the receiving capacity set up by the control panel of the printer.	Check the upper limit of the receiving capacity from the touch panel display and compare it with the print data which was sent in the single print instruction.	1. If a single file of print data has exceeded the upper limit of the receiving capacity, split the file into smaller ones to keep them below the upper limit of the receiving capacity. 2. If multiple files have exceeded the upper limit of the receiving capacity, reduce the number of files which can be sent at one time.
An irrecoverable error has occurred during printing.	Check the display of "LPD Error" from the printer control panel.	Power Off and On the printer.
The transport protocol is different from that of the client.	Check the selected transport protocol on the touch panel display.	Select the same transport protocol as that of the client.
The data format of the print data to be processed by the printer and that sent by the client are different.	-	If the client is running Windows, disable the output function of Ctrl-D. Refer to the PRINTER.WRI file provided by Windows 4.0 for the details.

●●● Unable to obtain the desired print results

Cause	Verification	Action
The specified print language and that of the print data are different.	Check the specified print language and that of the print data.	Specify the same print language as that of the print data.
If it is running in Windows, the printer driver for this printer has not been used (a printer driver from another company has been used).	Check that the printer driver which came with this printer has been selected.	Select the printer driver which came with this printer. If it does not appear on the selection list, install and select the printer driver. If a printer driver from another maker is used, the printer may not print properly.



Using SMB

This section provides information on the possible causes, verifying methods and recommended actions pertaining to errors which may occur when using the printer with SMB.

15.6.1 The Printer is not Found

Cause	Verification	Action
The transport protocol used by the client computer and printer is different.	On the client computer, you can find the printer when searching it as another computer (Start > Find > Other computer) but not when searching it in the Network Neighborhood.	Specify similar transport protocol for SMB in the printer and every client computer.
There are multiple browsers.	(same as above)	When there are multiple client computers within the same workgroup, change the Auto Master Mode in the config.txt file to Off, and then reboot the printer.
The network (subnet) is wrong.	(same as above)	When the printer and client computer is in a different network, contact your system administrator.
Name search of the host name is not working correctly (for TCP/IP)	When specifying the printer IP address and the responded Host Name do not respond to the PING command issued.	Check the settings of the config.txt file (WINS Primary Server, WINS Secondary Server, Subnet Mask) with the settings on the client computer (e.g. WINS, DNS, LMHOST).
The host name specified already exists in the printer.	Check if Status of SMB on the Printer Settings List indicates that the host name is repetitive.	Change the Host Name of the config.txt file to another name not in use. Or, change the host name used by Internet Services to another name not in use. Or, reset the printer settings to default values.

15.6 Using SMB

15.6.2 Cannot Print

Cause	Verification	Action
The printer is processing print instructions from other client computer. (only for non-spool mode)	Check if the printer is processing print instructions. (For Windows 95/98, Windows NT 4.0, an error message about insufficient storing space for waiting print jobs is displayed.)	After the printer has processed the print instructions, send a print job to the printer or at the printer, change the mode to spool mode.
The printer has exceeded the maximum number of connections allowed.	Check if the printer is processing requests (e.g. print instruction, status enquiry) from multiple client computers at the same time. (For Windows 95/Windows 98, an error message about remote computer cannot be used is displayed.)	Wait for a while, then send print instruction again. Or, increase the value of Maximum Sessions on the config.txt file, and then reboot the printer. (only for printer system administrator)

15.6.3 Cannot Delete Documents from the Printer Window

Cause	Verification	Action
Tried to delete all documents displayed in the printer window. (only possible for printer administrator)	Check if you are trying to delete print jobs from the Printer menu on the printer window.	Select the document you want to delete, and then select Cancel Printing from the Document menu.
The Owner of the document is not correct.	Check if Owner of the selected document is similar to the name used for logon to Windows.	Logon to Windows again using the name of Owner of the document, and then delete the document.
Service Pack 3.0 and above is not installed. (for Windows NT 4.0)	Check the version of Service Pack installed. Click on Start, then Run and type in "winver" (without the quotes) and hit enter.	Install Service Pack 3.0 or above.

15.6.4 Cannot Perform Auto Driver Downloading

Cause	Verification	Action
The auto driver downloading feature is not working.	Check the setting of Auto Driver Download in the config.txt file. (only for printer administrator)	Set Auto Driver Download to Enable in the config.txt file, and then reboot the printer. (only for printer administrator)
Different types of printer drivers are saved.	Check the printer type, and then check if the correct printer driver is saved.	After saving the correct printer driver, reboot the printer. (only for printer administrator)
The printer driver is not saved within two levels from the drivers folder.	Check if the folder containing the printer driver is within two levels from the drivers folder.	Save the printer driver inside a folder within two levels from the drivers folder, and then reboot the printer. (only for printer administrator).
The printer driver is not saved in a folder which is named within eight alphanumeric characters.	Open driver.txt of the drivers folder, and check if there is a message about the folder name not within the 8.3 format.	Change the folder name to one within eight alphanumeric characters, and then reboot the printer. (only for printer administrator)



Using Internet Services

Cause	Treatment
Cannot be connected to Internet Services.	Is the printer working properly? Check if the power of the printer is switched On.
	Is Internet Services activated? Print out the Printer Settings List to check.
	Is the internet address correctly entered? Check the internet address again. If cannot be connected, enter the IP address to connect again.
	Is a proxy server used? Depending on the proxy server, connections might not be made. Without using the proxy server, either change the browser setting or the address to which you want to connect to one without using the proxy server.
The Please wait message is displayed throughout.	Wait for awhile as instructed. If nothing happens, try clicking the Refresh button. And even then, if nothing happens, check if the printer is working properly.
The Refresh button is not working.	Are you using the target OS and browser?
Selecting the left frame menu does not change the right frame settings.	By referring to "10.1.3 Target host computers and browsers", check if the OS and browser you are using can be used.
The screen display is distorted.	Change the window size of the browser.
The latest information is not displayed.	Click the Refresh button.
The new settings are not reflected by clicking the Apply New Settings button.	Is the value entered correct? If the value entered is not within the correct range, it will be changed to a value within the correct range automatically.
Clicking the Apply New Settings button prompt messages like no data or the server has returned ineffective or unrecognizable response.	Is the password correct? The entry for Confirm Password is not similar to Password. Enter the correct password.
	Reboot the printer.
Even if the job you want to delete is checked, the selection is unchecked later.	Is the Auto Refresh set? Either set Auto Refresh Interval of Internet Services Settings on the Properties tab to Void or to a higher value.
The job cannot be deleted.	Wait for awhile, and then click the Refresh button. Even if jobs are deleted from LPD of Job List, they might not be deleted from System. When this happens, delete the job from System again.
When LPD or SMB is selected, a message will appear to say that it is not spool mode.	After the present page is displayed, the printer might be rebooted. Click the Refresh button. If nothing happens, try changing from the browser.



Appendix

A	Main Specifications	230
B	Connectors and Allocation Signal	232
C	Printing Data Combined Using Overlays	234
D	Printing Secured Print and Sample Set Jobs	236



Main Specifications

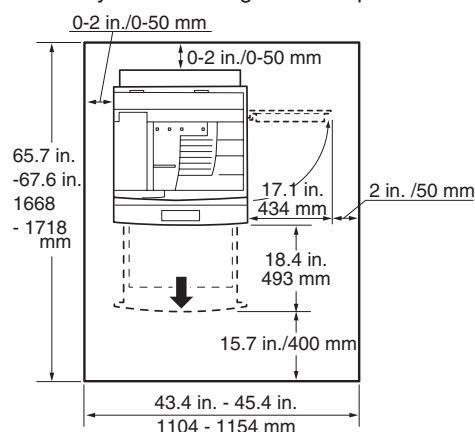
A.1 Specifications of the Printer

The specification of the printer model or the main unit (i.e. copier only) with the printer kit installed is as follows:

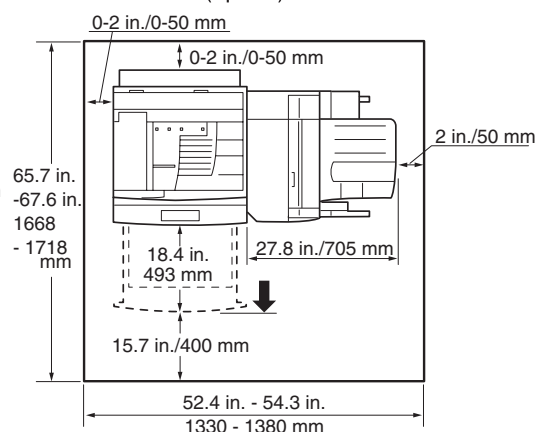
We regret that improvements in specifications/appearance of the product may be made without prior notice.

Power	: 120 VAC, 15 A (60 Hz); 220-240 VAC, 7 A (50/60 Hz)
Power consumption (maximum)	: 1.35 kW (120 V model); 1.20 kW (220-240 V model)
Dimensions	: (W) 24.4 in. × (D) 30.5 in. × (H) 42.5 in. (including DADF) (W) 620 × (D) 775 × (H) 1080 mm (including DADF)
Minimum space requirements	: (W) 40.0 in. × (D) 30.5 in. (W) 1017 × (D) 775 mm
Weight	: 407 lb 185 kg (main unit + DADF)
Installation space	: See below

Multi-tray and lower right cover opened

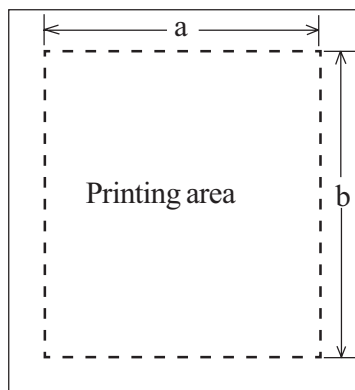


Finisher (option) installed



A.2 Printing Area

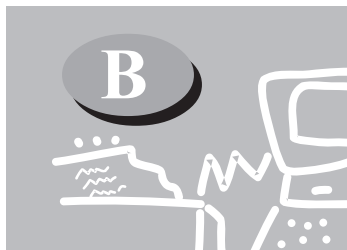
The printing area of each paper size is about the area remaining after subtracting 4 mm from all edges of the paper and may change according to each printer control language.



Paper size	600 dpi	
	a	b
A3 (297 × 402 mm)	6804	9711
B4 (257 × 364 mm)	5859	8388
A4 (210 × 297 mm)	4749	6804
B5 (182 × 257 mm)	4089	5859
A5 (148 × 210 mm)	3285	4749
A6 (105 × 148 mm)	2268	3285
B6 (128 × 182 mm)	2811	4089
11 × 17" (Ledger)	6390	9990
8.5 × 14" (Legal)	4890	8190
8.5 × 13" (Folio)	4890	7590
8.5 × 11" (Letter)	4890	6390
5.5 × 8.5" (Statement)	3090	4890
8K (267 × 388 mm)	6096	8955
Postcard* (100 × 148 mm)	2151	3285



- Unit: dot a: scan direction b: sub-scan direction
- The postcard feature is not available in some countries.

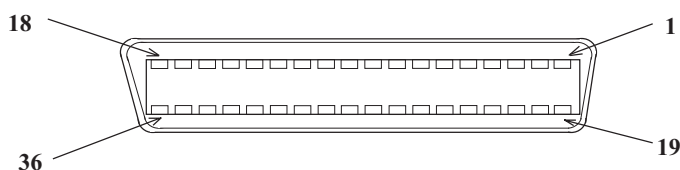


Connectors and Allocation Signal

This section describes the parallel interface (centronics/IEEE1284-compliant interface).

●●● Shape of the connector

The printer is installed with the IEEE 1284-B type of interface. The shape of the connector is as follows:



●●● Pin arrangement

The pin arrangement of the various signals when bidirectional is OFF is as follows:

Pin No.	Signal name	I/O	Pin No.	Signal name	I/O
1	nStrobe	I	19	Signal Ground	-
2	Data1	I	20	Signal Ground	-
3	Data2	I	21	Signal Ground	-
4	Data3	I	22	Signal Ground	-
5	Data4	I	23	Signal Ground	-
6	Data5	I	24	Signal Ground	-
7	Data6	I	25	Signal Ground	-
8	Data7	I	26	Signal Ground	-
9	Data8	I	27	Signal Ground	-
10	nAck	O	28	Signal Ground	-
11	Busy	O	29	Signal Ground	-
12	PError	O	30	Signal Ground	-
13	Select	O	31	nInit	I
14	nAutoFd	I	32	nFault	O
15	(RESERVED)	-	33	(RESERVED)	-
16	Logic GND	-	34	(RESERVED)	-
17	Chassis Gnd	-	35	(RESERVED)	-
18	Peripheral Logic High	O	36	nSelectIn	I



- Looking from the printer, I is the input signal, O is the output signal, - is not a signal.
- When bidirectional is ON, the connection adheres to the IEEE 1284-B connector

standard.

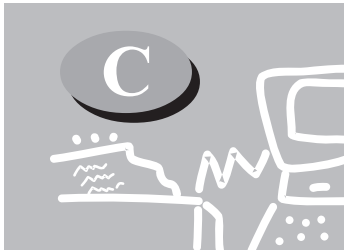
●●● Meaning of the signals

When the bidirectional is OFF:

- nStrobe (Pin No.1)
The synchronous signal for the reading of data 1-8; needs the LOW active pulse.
- Data1-8 (Pin No.2-9)
For the 8-bit parallel data input, Data 1 is LSB (lowest bit) and Data 8 is MSB (upper-most bit).
- nAck (Pin No.10)
A LOW active pulse signal which indicates that the received data has been taken in.
- Busy (Pin No.11)
A HIGH active signal which indicates that the printer is unable to receive data.
- PError (Pin No.12)
A HIGH active signal which indicates that there is no more paper.
- Select (Pin No.13)
A HIGH active signal which indicates that it is possible to receive data.
- nAutoFd (Pin No.14)
The signal when the bidirectional is ON.
- Chassic Gnd (Pin No.17)
Connected to frame ground.
- Peripheral Logic High (Pin No.18)
+5V voltage on the printer side.
- Signal Ground (Pin No.19-30)
Connected to the various signal ground.
- nInit (Pin No.31)
The LOW active pulse signal which requests for the initialization of the printer.
- nFault (Pin No.32)
The LOW active signal which indicates that errors such as paper jams have occurred in the printer.
- nSelectIn (Pin No.36)
The signal when the bidirectional is ON.

When the bidirectional is ON:

All connections adhere to the IEEE 1284 connector standard.

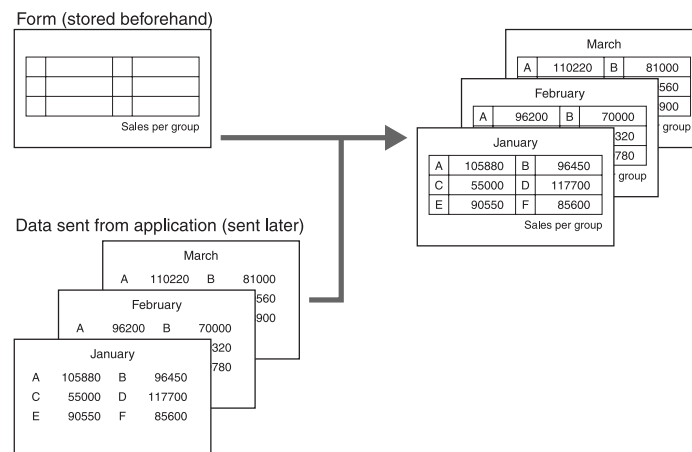


Printing Data Combined Using Overlays

You can use the overlay feature to combine data for printing.

For example, you can first create an overlay for a blank form and store it in the printer. Later, you can send the data for the form to the printer to print out the data with the form.

Here, we will explain the process by printing from Word on Windows 98 as an example.

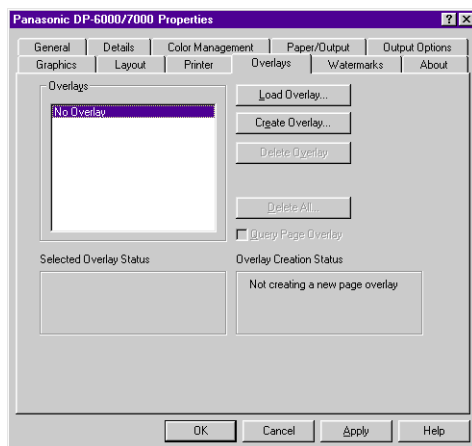


Note Depending on the application software, the way to display the printer properties dialog box might be different. Check the manual for the application software used.

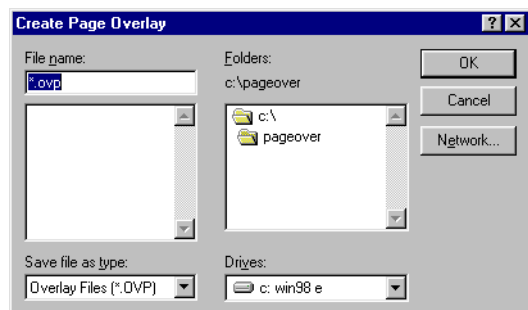
C.1 Creating an Overlay

First of all, create the overlay.

Procedure



- 1 Using the application software, create the form.
- 2 From the File menu, select **Print**.
- 3 Check that the correct printer is used at the Name list box, and then click **Properties**. The printer properties dialog box appears.
- 4 Click the Overlays tab.
- 5 Create **Create Overlay**. The Create Page Overlay dialog box appears.

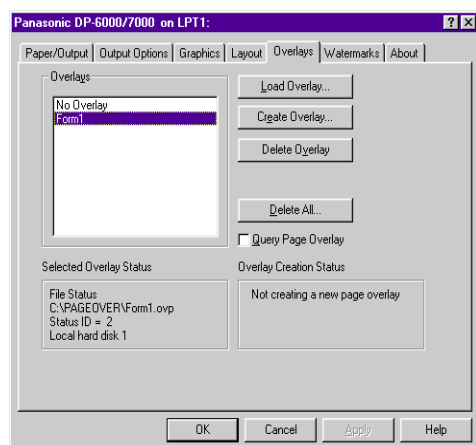


- ⑥ Enter a name for the overlay in the "File name" box.
If you wish, select another directory other than the default C:\pageover.
- ⑦ Enter a name (e.g. "Form1") for the overlay in the "File name" box and then click **OK**.
- ⑧ Click **OK** to close the printer properties dialog box. Then click **OK** to close the Print dialog box. When a confirmation message, "Create Page Overlay" appears, click **Yes** to confirm.
The overlay will be stored in your computer.

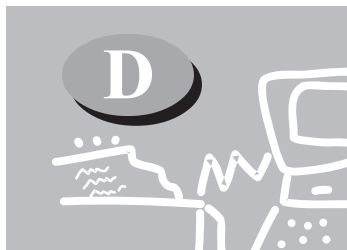
C.2 Printing with an Overlay

Next, print your data with the overlay.

Procedure



- ① Using the application software, create the data for the form.
- ② From the File menu, select **Print**.
- ③ Check that the correct printer is used at the Name list box, and then click **Properties**.
The printer properties dialog box appears.
- ④ Click the Overlays tab.
- ⑤ Select the overlay (e.g. "Form1") to be used from **Overlays**.
- ⑥ Click **OK** to close the printer properties dialog box. Then click **OK** to close the Print dialog box.
The data will be printed with the overlay.

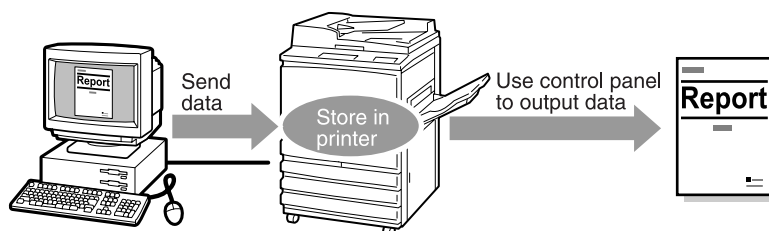


Printing Secured Print and Sample Set Jobs

This section explains the Secured Print and Sample Set features.

●●● Secured Print

On the computer, you can attach a password to a print job, send it to the printer for storing, and then print out the job later using the printer control panel. This feature is known as Secured Print. You can also send data to the printer without a password. This feature is useful for storing frequently used data in the printer, and then using only the printer control panel and not the computer to print it out.



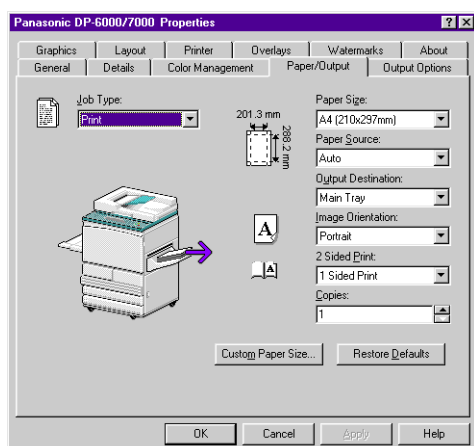
●●● Sample Set

When printing multiple copies, you can print out only the first set to check the printing result first before printing the remaining copies from the printer control panel. This feature is known as Sample Set.

D.1 Storing Secured Print/Sample Set Jobs

The following procedure describes how to store a Secured print or Sample set job:

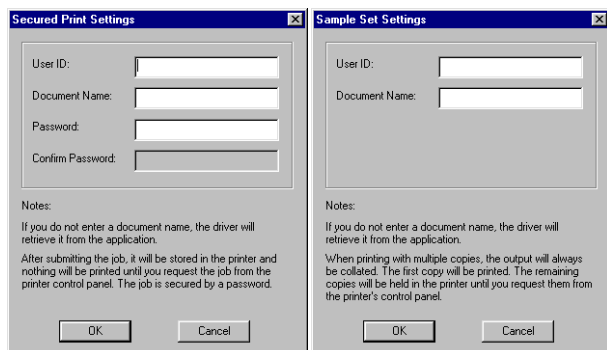
Procedure



1 Refer to "4.3.1 Accessing the printer properties dialog box" to display the printer properties dialog box.

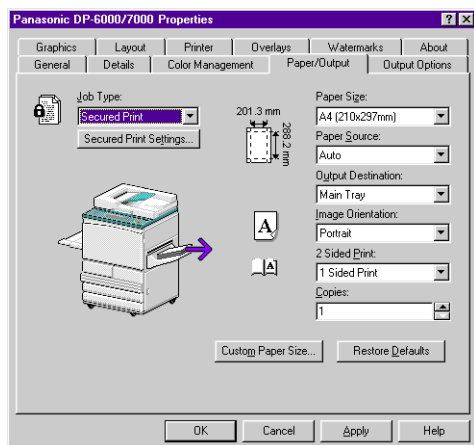
2 Click the Paper/Output tab.

3 From the Job Type list box, select **Secured Print** or **Sample Set**.
The Secured Print Settings or Sample Set Settings dialog box appears.



4 For **User ID**, specify a user ID using 1-24 characters.
This is mandatory. If no user ID is specified, you will be prompted by a warning message.

5 For **Document Name**, specify a document name using 1-24 characters.
This is optional. If you do not enter a name here, it will be retrieved from the application.



When Secured Print is created

6 For Secured Print Settings only
For **Password**, specify a password using 1-4 *numbers*.
This is optional. The password specified will be displayed by one * for each number entered.

After **Password** is entered, **Confirm Password** will be enabled for you to re-enter the password for confirmation.

7 Click **OK**.
A button, **Secured Print Settings** or **Sample Set Settings** will become available just below the "Job Type" list box.

D.2 Printing Secured Print/Sample Set Jobs

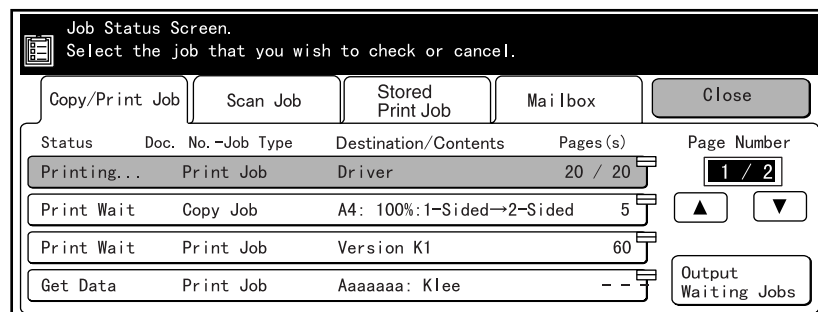
The following procedure describes how to print from the printer control panel, a Secured print or Sample set job that has been stored in the printer. Here, we will print a Secured Print job as an illustration.

Procedure

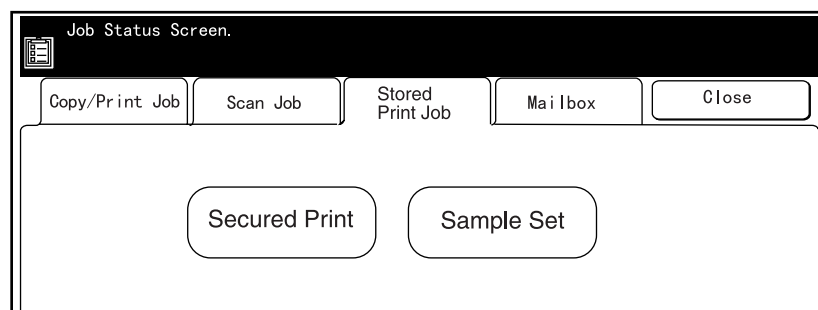
- 1 Press the button, **Job Status ► Stop** on the control panel.
The Job Status screen is displayed.



- 2 Click the tab, **Stored Print Job**.



- 3 Select **Secured Print** or **Sample Set**, depending on the type of job you want to print.
Here, we will illustrate by selecting **Secured Print**.



- ④ The list of jobs grouped under user ID appears. Select the job belonging to your user ID.

Job Status Screen.

Secured Print List Close

No.	User ID	Total Doc.	Page Number
1	1234	1	0001/0001
2	8888	1	

- ⑤ A Password Entry screen appears.
Enter your password and then **Confirm**.

Note This Password Entry screen will not appear for Sample Set jobs as well as Secured Print jobs without a password entered in the printer driver (see Step ⑥ of "D.1 Storing Secured Print/Sample Set Jobs").

Please enter the Password using the numeric keypad.

Secured Print - Password Entry Close

Password

0000 - 9999

Confirm

- ⑥ The list of jobs under your user ID appears.
Select the job that you want to print, and select **Print**.

Job Status Screen.

Secured Print - Check/Delete Docs. 8888 Close

No.	Document Name	Stored	Date/Time	Pages	Page Number
1	Orange	2001/05/22	10.27 (AM)	1	0001/0001

Select All Print Delete

Appendix D Printing Secured Print and Sample Set Jobs

- 7 The following screen appears.
For Secured Print job:

The following document will be printed.
User ID : 8888
Document Name : Orange
Stored Date/Time : 2001/05/22 10:27 (AM)
Select whether to save or delete document after printing.

Select **Print and Delete** if you want to print and then delete the job.
Select **Print and Save** if you want to print the job without deleting it.

For Sample Set job:

All documents belonging to the following User ID will be printed.
User ID : 8888

Documents will be deleted after printing. Are you sure?

Select **Yes**.

- 8 The job will be printed.



Glossary

[A3]

420 × 297 mm paper.

[A4]

297 × 210 mm paper.

[A5]

210 × 148 mm paper.

[ACK]

The signal indicating that the printer is ready to receive data from the computer or that data is correctly received.

[B4]

364 × 257 mm paper.

[B5]

257 × 182 mm paper.

[Buffer]

The place where data received by the computer is stored.

[Busy]

Signal indicating that the printer is not able to receive data from the host device.

[CPI]

Stands for Character Per Inch, which is the number of characters that can be printed within a width of 1 inch.

[CR]

Stands for Carriage Return, which is the change of line.

[DTR Control]

Stands for Data Terminal Ready, which is the hardware signal that indicates whether the printer can receive data from the computer.

[DPI]

Stands for Dot Per Inch, which is the number of dots that can be printed within a width of 1 inch. Used as the unit for resolution.

[DPU]

Stands for Direct Print Utility, a software which uses TCP/IP protocol to allow PC to send and print data directly to a printer located on the same network.

[Emulation]

The ability of the printer to perform the features of other printers.

[Folio]

8.5 × 13" (330 × 216 mm) paper.

[Hard clip area]

The actual rectangular area on the paper which can be printed.

[Statement]

5.5 × 8.5" (140 × 216 mm) paper. Also known as Half Letter.

[Image Enhancement]

Feature which makes the border between black and white smooth, with rough edges reduced, giving the appearance of a higher resolution.

[Job]

A group of print data. The stopping and output of printing are conducted on a job basis. For mode menu changes, the new settings will be effective from the next job.

[LED]

Stands for Light Emitting Diode.

[Ledger]

11 × 17" (432 × 279 mm) paper.

[Legal]

8.5 × 14" (356 × 216 mm) paper.

[Letter]

8.5 × 11" (279 × 216 mm) paper.

Glossary

[NV Memory]

Non-volatile memory which allows the settings of the printer to be maintained even when power is off.

[Scaling Point]

The limit of the specification of the plotting area.

[Page buffer]

The actual place where print data is retrieved and stored. The page buffer memory is secured after the printer memory is allocated to memories such as form memory, receive buffer memory etc., and the size of page buffer memory can be confirmed on the printer settings list.

[Parity check]

The checking of whether the data sent is being received.

[Power Saver]

The feature which saves the power consumption by lowering the temperature of the printer's fuser. The power saver mode is automatically activated when the time set has elapsed after the previous print job.

[Printing area]

The actual area on paper which can be printed.

[Protocol]

The rules of communication necessary for carrying out data transmission.

[RAM]

Stands for Random Access Memory, which is the memory device where information can be retrieved as well as recorded.

[ROM]

Stands for Read Only Memory, which is the memory device specific for the retrieval of information.

[Scaling]

The enlargement and reduction of the input size (document size) by matching the output size (paper size).



Index

Symbol

2 Sided Print ----- 59, 152

A

All Texts to Black ----- 65
AppleTalk ----- 11
Audio Tones ----- 184
Auto Configuration ----- 55
Auto Driver Downloading ----- 116, 227

B

Booklet Creation ----- 69
Bypass Feed Orientation ----- 55

C

Cancelling Printing from Printer
 Jobs in Process ----- 33
 Jobs in the Printer ----- 34
Change of Access Number ----- 186
Collate ----- 44, 60
Common Settings ----- 184
Copies ----- 59
Copy Mode Settings ----- 186
Custom Paper Size ----- 59

D

Delete Stored Print Job ----- 194
Device Halftoning ----- 55
Direct Print Utility ----- 9
 Installing ----- 81
 Setup of the printer ----- 78
 Troubleshooting ----- 216
 Uninstalling ----- 90
 Using ----- 76
Dynamic Host Configuration Protocol (DHCP) ----- 17

E

EMF Spooling ----- 63
Error History Report ----- 166
Error Report ----- 55
Ethernet interface ----- 2, 8, 9, 12, 26, 27, 123
EtherTalk ----- 11

F

Feature Defaults
 of Copy Mode Settings ----- 186
 of Print/Scan Mode Settings ----- 187
Finisher ----- 54, 58, 60
First Sheet ----- 63
Fit To Output Size ----- 70
Flip on Long Edge ----- 59
Flip on Short Edge ----- 59
Font ----- 152
Forced Outputting
 in Emulation Mode ----- 36
 Waiting Jobs ----- 35
Form Lines ----- 155

G

Graphics Mode ----- 64

H

Halftone ----- 64
Halftone Color Adjustment ----- 66
Hex Dump ----- 155
High Capacity Feeder (HCF) ----- 54, 57

I

Image Enhancement ----- 44, 65, 155
Image Orientation ----- 59
Image Quality ----- 186
Initialize Memory/Disk ----- 194
Internet Printing Protocol (IPP) ----- 12, 132
Internet Services ----- 107, 140, 228

Index

IP Address	13
IPX Start Up	188
IPX/SPX Setting	188

J

Job History Report	163
Job Status	32
Job Type	56

L

Layout Mode	68
Logical On Physical	70
Low Power Mode	22
LPD	21

M

Maximum No. of Sets	155
Memory Allocation	28
Memory Changes	192
Multi-Up	68

N

NetBEUI	8, 102, 104
NetWare	11, 122, 200
precautions/limitations	200
Setup for the client	129
Setup for the printer	125
Troubleshooting	218
NetWare Administrator (NWADMIN)	124
Network Printer Environments	8
Network Settings	187
No Rotation on Same Sheet	69

O

Original Size Defaults	186
Original/Paper Size Sensing	184
Output Destination	58, 151
Output Orientation	151

Output Size	151
Overlays	66, 234

P

Page buffer	28
Paper Output Options	54
Paper Size	57
Paper Source	57
Paper Source Options	54
Paper Tray	151
Paper Tray Attributes	184
Parallel interface	2, 26
PCL 5e	6
PCL 6 Settings	151
PCL Fonts List	170
PCL Settings List	168
PCONSOLE	124
Pitch	155
PJL switch	44
Point Size	154
Port Settings	
EtherTalk	191
FTP Client	191
Internet Service	191
IPP	192
LPD	190
NetWare	190
Parallel	189
Salutation	191
SMB	190
Poster	71
PostScript Fonts List	172
PostScript Logical Printer List	176
PostScript Settings List	176
Power Saver	22
Print Meter Report	174
Print Mode	150
Print server (PSERVER) mode	122

Print/Scan Mode Settings	187
Printer Driver	
"Graphics" tab	64
"Layout" tab	68
"Output Options" tab	60
"Overlays" tab	66
"Paper/Output" tab	56
"Printer" tab	54
"Watermarks" tab	72
Installing	45
overview	44
Uninstalling	49
Printer Settings List	161
Printing Area	231
Printing from Windows environment	30
Punch	44
Punch Position	62

R

R/E Presets	186
Receive buffer	28
Report Settings	185
Report/List	160

S

Sample Set	56, 236
Screen Layout	
of Common Settings	184
of Copy Mode Settings	186
of Print/Scan Mode Settings	187
Secured Print	56, 236
Select Substitution Tray	55
Server Message Block (SMB)	8, 102, 205, 225
Sleep Mode	22
Staple	44
Staple Position	60
Stored Print Job List	178
Symbol Set	154
System Setup	185

T

TCP/IP	8, 9, 10, 12, 13, 78, 82, 94, 102, 108
precautions/limitations	203
Troubleshooting	223
Time-Outs	184
Token Ring	2, 6, 12, 26, 202
Tools Mode	182
TrueType Mode	65

U

UDP Start Up	188
Use Printer TrueType Fonts	65

W

Watermarks	72
WINS Server	17

Z

Zoom	70
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